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ODIES OF TYPE: THE WORK OF TEXTUAL MANUALS PRODUCTION IN ENGLISH PRINTERS'

Lisa Maruca

and the brassworker, etc. Thus many mouths are fed by this branch of proofreader, the publisher, the book binder, sometimes even the gilder papermaker, the type founder, the typesetter and the printer, the becomes an actual book in this sense. The scholar and the writer, the nized. Many people work on this ware before it is complete and to another in such a way that it can be conveniently read and recogbound in cardboard, paper, vellum, leather, etc. for presenting the truth useful and convenient instrument constructed of printed sheets variously together in such a way that they can be filled with writing; or, a highly Book, is either numerous sheets of white paper that have been stitched

Allgemeines Oeconomisches Lexicon (1753)

spiritual to the material we find it obtains in all matters else—a subservience (pro tanto) of the remuneration...a positive reversing of the natural order of things, as relation between Author & Bookseller or Publisher, as regards [T]here has always appeared to me, something monstrous in the existing

William Wordsworth, manuscript fragment (1838)

several partners in the University of Oxford Press. Of course, Moxon's text is a (1683), Joseph Moxon dedicates what he calls his "Piece of Typographie" to On the first page of Mechanick Exercises on the Whole Art of Printing

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piece on typography in that typography is one of the many topics he covers in his

chanical aspects of book-making as just as important as, if not superior to, the

ultimately influenced by the physical form of its presentation."2

field of inquiry, tells us what Moxon might have: "our understanding of a text is organization, distribution, circulation, etc. John Feather, in an essay defining this texts such as paper- and ink-making, letter founding, composing methods, work "History of the Book" has rediscovered the significance of the physical aspects of intellectual (figs. 1 and 2). In the last twenty-five years or so scholarship in the instrument maker, had personal and financial reasons to point to the material and writer, in addition to his regular work as hydrographer and mathematical as are all printed books. While Moxon, who was a part-time printer, typefounder expansive treatise. But his volume is also, inevitably, a literal piece of typography,

nature of his text, it is also evident throughout his text that he regarded the me-

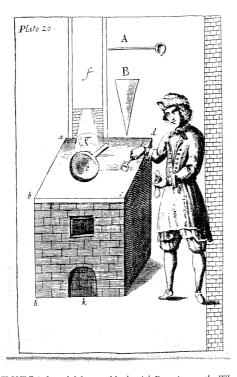


FIGURE 1. Joseph Moxon, Mechanick Exercises on the Whole Art of Printing. Plate 20. The Furnace



FIGURE 2. Joseph Moxon, Mechanick Exercises on the Whole Art of Printing. Plate 29. Wetting Paper

a statement can give rise to.3 Michael Warner points to the pitfalls inherent in standing of print has let us easily give the printing press credit or blame for such collective, and culture receives an impact generated outside itself."5 This underindividualism) it leaves in its wake. It is clear that from within such a narrative, of human progress—cannot be resisted. It remains to historians only to chart the good or evil. Once set in motion, its inexorable drive-the very motor, perhaps, itself unmediated."4 This technology is seen as an implacable force, whether for historians of the book "at some level . . . suppose printing to be a nonsymbolic relying on this "Whig-McLuhanite model of print history," claiming that most its physical form, it is that physical form. I say this wary of the essentialism such further. Mechanick Exercises makes it clear that the text is not only influenced by reading and writing regimes such as authorship and intellectual property, and even vast and complex cultural conditions as literacy, democracy, and capitalism, for "politics and human agency disappear . . . whether the agency be individual or detritus (be it comprised of constitutions, novels, bills of sale, or ideologies of rhetoric . . . and from forms of subjectivity . . . It is mere technology, a medium form of material reality. Printing, in this view, is naturally distinct both from for more local institutional practices such as literary hermeneutics and scholarly In this essay, however, I would like to press Moxon's implications a bit

tual.7 A useful place to examine the representations of print technology is in at the multiple possible and actual uses of a machine in the hands of variously and see it not as a fixed essence, but an active and ever-changing ideological tool trade; from these we can begin to glean the local and historical meanings of print about books attempt to describe, analyze, standardize, and regulate their craft and printers' manuals, the self-reflective texts by printers about printing. These books text, but assert that this supposedly solid essence is in fact always ultimately texphysical form of print, I do not oppose it to or divorce it from the metaphysical they are also at the same time subjects of print. Therefore, when examining the tialized bodies as opposed to machines, but to examine them as agents of print, if ideologically situated owners and workers. This is not to take these up as essen-Such determinism can be counteracted, I believe, by looking more closely

1755 The Printer's Grammar as representative examples of these printers' manu-I am using Joseph Moxon's 1683 Mechanick Exercises and John Smith's

als. Certainly, they were considered such throughout the eighteenth century: Moxon's text, "the first comprehensive [printers'] manual in any language," stood as the primary source of information on printing for the first half of the century, and Smith's was the most widely copied for the next hundred years. These two texts are also representative in that they each appeared after periods of dramatic upheaval within the trade. Moxon's text came after a period of great flux within the printing businesses spurred by the political upheavals of Restoration England and the debates over the relative freedom of the press. Smith's text, too, responds to a half-century of legal and economic changes that solidified the market for print products. I will argue that both printers' manuals not only reflect these changes in their trade, but react to them in ways that produce specific ideological regimes.

As part of my examination of these ideologies of print, this essay attempts to recover the role of print workers as it was once understood by contemporaries in the print trades, and perhaps even by readers and writers. In Moxon's manual, I will argue, the body of print emerges as a working body, a laborer whose physical construction of print is every bit as, if not more, important than the writer who supplies text. Indeed, the print worker is understood as a *collaborator* in the construction of the meaning of the print text. By the time Smith wrote his manual, however, the working body had dissolved into the subject writing, the transcendent Author, whose disembodied intellect is privileged over the physical book. Typography was thus conceived of as a transparent manifestation of the Author's will. One of my goals, then, is to chart the history of the erasure of the printer from the scene of textual creation, to reclaim a discourse lost in the naturalization of print.

Printing, however, is but one human activity among many, and it must be viewed in its larger cultural context. In both Smith's and Moxon's manuals, the representation of orderly print (held up as an exemplar against unauthorized forms and potential typographical chaos) and the proper role of printer and writer within that order are buttressed by other technologies of management: in both texts, as I will show, the arguments for typographical regulation rely on discourses of sexuality and gender. Each writer, however, writing in historical situations seventy years apart and promoting his own particular agenda, constructs a different interpretation of what it means to be a man (and by inference a woman) in and of print. The changing notions of authorship and print work in this period both reflect and reproduce changing notions of sexed bodies and gendered behavior. *Mechanical Exercises* and *The Printer's Grammat*, then, usefully frame an important transitional period in the history of publishing, a period which reconstructed the meaning of that "piece of typography" we call "book."

"THE LANGUAGE OF ARTIZANS": PRINTING MANUALS FOR THE MECHANICK ARTS

A brief history of manuals such as these may be useful for understanding their strategic location within changing notions of intellectual work and the economies that support it. While Moxon's and Smith's texts were, as I have indicated, prototypes within the print trade, they would have seemed familiar to an audience acquainted with the larger "how-to" genre of manuals. Printers' manuals were part of the early modern European "proliferation of books on the business

ed trends: the relative loss of guild power and the popularization of science. Manof the first printers' manual can be seen in the context of two more specific relatcategorizations of the trades in general.9 In England specifically, the publication and guild power was radically diminished.¹¹ mies of scale led to the creation of proto-factories requiring specialization and a with more capital, which limited the number of those who, as masters of their an increasingly retail-based economy required tradesmen to start their businesses try outside city walls and in the provinces. At the same time, the development of ments against monopolies that accompanied the slow but steady growth of industiceship.10 The London-based guilds were further threatened by political movesuch knowledge only with those who followed the traditional paths of appreners of these manuals risked the wrath of their colleagues, who preferred to share individual trades were not always pleased to have their secrets revealed, and writuals such as Moxon's may have contributed to the former: Eisenstein relates that arts," that is, the larger and longer historical trend in publishing descriptions and changes disrupted the once clear path from apprentice to journeyman to master, division of labor that did not always overlay well onto existing guild structures trade, could set up their own shops. The necessity of taking advantage of econo-Thus while livery companies still existed throughout the eighteenth century, these

ening of restrictions on printing throughout the last thirty years or so of the sevof the press, was happy to oblige, but the Company was not completely pleased accompanied by, indeed, arguably constituted by, an outpouring of unauthorized mous or seditious. The political upheaval of the 1640s and 1650s, however, was been able, with the cooperation of the Crown, to control not only who printed enteenth century. 12 In the early seventeenth century, the Stationers' Company had ed, who reported directly to the Secretary of State. The first Licenser, the notoriprerogatives, except one important one: although printers, in order to publish members. The nervous Crown, who had learned all too well the potential power ished during those years from continuing to take business away from Company Company looked to the government to help it re-establish the authority it had printed texts. When Charles II was restored to the throne in 1660, the Stationers' but also what was deemed printable, that is, what was not considered blaspheguilds, to be a dominant force in an increasingly entrepreneurial and commercia sive, to control its trade, but despite its efforts, it had ceased, like many other as they realized the press was better channeled than suppressed: by 1695, the keep the press under control in times of political duress, as the Exclusion Crisis of ous Roger L'Estrange, was much despised by the Stationers, but even he could not to enforce their own pre-publication censoring. Instead, a Licenser was appointlegally, had to be one of the Stationers, the Stationers would no longer be trusted with the results. The Licensing Act of 1662 reinstated most of the Company's lost during the Civil War and prevent the many unofficial printers who had flourners' Company from this point on would seek other means, both legal and discurthe Licensing Act was up for renewal, it was rejected by Parliament. The Statioon printed material to garner support and besmirch the opposition. Thus, when government had polarized into two parties, Whig and Tory, both of which relied 1679-81 revealed. The Crown gave up its most stringent efforts to censor, though, In the case of the print trades, these factors were exacerbated by the loos-

mathematical instrument-maker. 15 More broadly, though, these texts announced knowledgeable printer, but also a reliable hydrographer and map-, globe-, and self an expert on the "mechanick arts" and so advertised himself not only as a perhaps more narrowly financial: by publishing these volumes he declared himdescribed the work of smiths, joyners, carpenters and turners. His goals were the Company, however; after all, his work on printing was part of a larger set of away "secrets." It is not necessary to believe he wrote deliberately in defiance of Outside the still closed ranks of the Stationers' Company, he could freely give that he was part of the "new scientific ethos" that linked trade and technology.16 Mechanick Exercises; or the Doctrine of Handy-Works, the first volume of which this new era. He was not one of the twenty authorized printers in London.14 Joseph Moxon was one such entrepreneur, the prototypical printer of

explains this by explicitly contrasting the worker with the scholar: on's participation in the Royal Society suggests that his was not a manual for as transparent windows onto the world of professional printing. 18 Instead, Mox-Nation, of good Rank and high Quality, are conversant in Handy-Works." He ble and scandalous . . . yet it is very well known, that many Gentlemen in this printers, but one specifically for outsiders. 19 Indeed, he asserts in his preface to ers, a view that has justified treating Moxon's manual and those of his followers implied by bibliographic scholars, that printers' manuals were written for printmight, upon studying this technology, improve it, leading to more efficient—and collectively written catalog and history of the trades.¹⁷ The implicit purpose of ship in the nascent Royal Society, which proposed as one of its first projects a the first volume of the Exercises that, "Mechanicks be, by some, accounted ignothus more profitable-systems of manufacture. This contradicts the view, long this was to disseminate the technology behind the trades so that superior minds It was perhaps his interest in this linkage that gained Moxon a member-

the cause of contempt upon Manual Operations, than that the excellent Invention of a Mill should be dispis'd, because a blind Horse draws in it I See no more Reason, why the Sordidness of some Workmen, should be

be improv'd by having the secrets of all Trades lye open; . . . that the The Lord Bacon, in his Natural History, reckons that Philosophy would Trades themselves might, by a Philosopher, be improv'd. (my empha-

trade would founder. Here, Philosophy's opposition to manufactures, a form of expertise of these groups, as a concern that without help from the higher classes, zans, Countrymen, and merchants," 22 then, was not so much a recognition of the same.21 The Royal Society's celebrated call for the use of "the language of Artiin the writings of others in the Royal Society, but it is clear that their goals are the mind-body dualism, marks a class difference, a privileging of brain-power over The blunt comparison of the "sordid" workman with a blind horse is less explicit

hundreds of years, using oral transmission to pass on trade secrets to apprentices learning as inseparable from physical labor. While these guilds had carried on for Books were meant to improve an apprenticeship system that construed

> and educated classes, allowing them to buttress their power-and personal finances—by increasing their knowledge of once mysterious techniques.²⁴ This alinformation made guild techniques the business (in both senses) of the literate and journeymen, the transformation of these somatic ways of knowing into print it in the preface of his first volume: print and pages, is significant enough that Moxon is compelled to comment upon teration in the technologies of learning, from orality and other embodied forms to

to perform them must follow; and that by true observing them, he may, cannot be taught by Words, but is only gain'd by Practice and Exercise; I thought to have given these Exercises, the Title of The Doctrine of consequently be able to perform them in time.²⁵ his hand to the Cunning or Craft of working like a Handy-Craft, and according to his stock of Ingenuity and Diligence, sooner or later inure safely tell you, that these are the Rules that every one that will endeavor Exercises, any shall be able to perform these Handy-Works; but I may therefore I shall not undertake, that with the bare reading of these Handy-Craft signifies Cunning, or Sleight, or Craft of the Hand, which Word Handy-Crafts, I found the Doctrine would not bear it; because Handy-Crafts, but when I better considered the true meaning of the

working together, a belief that becomes more obvious in the main text of his panions who emphasized Philosophy alone. He sees the intellect and the body cise." He does make print primary, refusing to use "handy-craft" in his title, but of pure "handy-craft," in which the body learns only through "Practice and Exerteach these crafts, as a producer of books he cannot concede either to the domain an uneasy compromise, for while he cannot guarantee that reading alone will writer of direct prose, so his convoluted syntax here is evidence of his struggle to who can read becomes a virtual apprentice.²⁶ of the (relatively) new technology, with its associated social affiliations. The silent is, at least momentarily, strategically placing his text within the ideological camp printers' manual. Despite this caveat—an important one, as I will detail—Moxon has to admit the body is necessary. Here he differs from his Royal Society comversus reading, embodied muscle memory versus print information. He comes to fulfill the demands of competing ideologies: the hand versus the eye, practice As we see, this conversion is not necessarily a smooth one. Moxon is usually a book has replaced the physical intricacies of the guild training system: anyone

JOSEPH MOXON'S SEXUALIZED TRADE THE BODY OF KNOWLEDGE:

ever, was also a worker himself, or at least worked closely supervising them in the and high Quality" by "classing" his text in opposition to workers. Moxon, howan audience like his friends in the Royal Society and other men of "good Rank tance of the body and its labor, his volume on printing is much less ambiguous. printing of books and building of mathematical tools. His multiple roles placed His preface had to sell his multivolume work, and he may have wanted to attract "handy-crafts," while at the same time contradictorily insisting on the imporhim on the boundary between the laboring and the thinking classes, and his pref If, in his preface, Moxon marks the worker as "sordid" and sleights

as such, belongs to the artisans and laborers who constructed it. ing it to be intrinsically grounded in the physical: knowledge is ink on paper, and knowledge nexus, Moxon, perhaps inadvertently, demystifies this realm by show information into the hands of an educated elite that sought to control the tradeshow, cannot be separated. While the Royal Society worked to place technical pulp, building presses, laying out pages. In short, it indicates that knowledge was not "philosophers," but working men and their tools, men carving letters, boiling the popularization of science and the promulgation of technological expertise is ety's rhetoric, however, his volume on printing suggests that the true force behind ace reflects this uneasy ideological positioning. Despite his use of the Royal Socidisseminated only through sweat and labor and letter-three terms which, I wil

and women construed in these theories were not understood as radically dimorvagina and ovaries in half the population. Thomas Laqueur suggests that men sands of years), views which held that women's sexual organs were the same as entiated bodies do the cultural work of print: their mechanistic heterosexual cou essentially biologically the same, with penis and testicles revealing themselves as men's, only inside-out. Men and women, like the male and female blocks, were suggests that this description was not uncommon, at least within the trade. Such earliest usages to Moxon. His prosaic manner in deploying such terms, however, sertable objects, such as water pipes, lingers even today, the OED traces one of its sex, for, Moxon tells us in a passage on the casting of letters for type, "[t]he on's text: heads, cheeks, faces, mouths, tongues, feet and toes, among others letter caster, for example, he describes this process in intense, almost lascivious detail pling is an essential part of the creation of words. In a passage on the work of the phic, but as part of a biological continuum.27 In Moxon, these relatively undifferthe late eighteenth century (and were indeed commonplace in Europe for thouusage may originate in the views on sexuality that dominated England prior to Male-Block" (ME, 181). While the male-female terminology used to describe inrunning through the length of it a Groove is made to receive the Tongue of the Female Block is such another Block as the Male Block, only, instead of a Tongue bodies formed by these parts evidently have a sex, and indeed, are made to have overwhelming presence seems more than an accident of etymology. The ghostly mechanical parts and tools related to the work of printing; nonetheless, their These are, of course, not literal human remains, but the terms given to various Pica, etc. Dismembered body parts of a more familiar sort, however, litter Moxplete run of letters of all one font and size, such as French Canon, Greatprimer In the printing terminology of the period, a "body of type" meant a com

Male-Block, both Knots shall squeeze the Letter close between them. or the Knot of the Female-Block lightly thrust toward the Knot of the the Male-Block is lightly drawn towards the Knot of the Female-Block fall into the Tongue of the Female-Block . . . So that when the Knot of lays it so upon the Male-Block, that the Tongue of the Male-Block may then takes about the middle of the Female-Block in his right-Hand, and the middle of the Male-Block into his left-Hand, tilting the Feet of the When his Stick of Letters is thus transfer'd to the Male-Block, He claps Letter a little upwards, that the Face may rest upon the Tongue, and

So, apparently, from the sex of machinery, a unit of language is born

Maruca / Bodies of Type

and while their couplings are not literally depicted, they underlie Moxon's conmen [are] members of the Body governed by that Soul subservient to him" (ME, printing process. The possibility of workers marrying, for example, is listed in a struction of the printing process: mechanical reproduction cannot exist without Blood, and shortly after dye" (ME, 324). Some even marry and have children, grow weary, punish and are punished, and even, in one alarming passage, "Piss are resolutely physical: they sweat, smell (both actively and passively), eat, drink, machinery. Moxon's working bodies-almost without exception male bodiesabstract or disembodied; the printed product does not appear magically out of are mostly, as in the passage above, working bodies, for in Moxon labor is never whose left and right hands are moving things along. In Moxon, human bodies way this entity works: the Master Printer is the Soul of Printing; and all the Worklaboring body that is the Chapel. Early in his treatise, Moxon explains briefly the workers' bodies belong to the Chapel; rather, together they make up the larger section describing customs of the "Chappel," or printing house. It is not that however, they are not independent of the trade and cannot be separated from the its earthy counterpart. Despite the material and sensual nature of these bodies, intrude into the scene of print-making as much as mechanical ones. These bodies Another body also intrudes in the love scene above, however: the "he"

forms the body of type, as seen in this passage on letter casting: they cannot be separated from the other body parts occupying the printing house, the mechanical ones. It is the intermingling of the human and mechanical which Because the workers' bodies are in fact merely parts of this larger body,

upon the Stool, while at the same time with his hinder-Fingers as Notch in the backside of the Matrice, pressing it as well forwards of the Bow or Spring with his right-hand Fingers at the top of it, and his the Matrice place it self upon the Stool. And clasping his left-hand lays the upper half of the Mold upon the under half, so as the Male-Now he comes to Casting. Wherefore placing the under-half of the Thumb, and thrusts by the Ball of his Thumb the upper part towards aforesaid, he draws the under-half of the Mold towards the Ball of his towards the Mold, as downwards by the Shoulder of the Notch close Thumb under it, and places the point of it against the middle of the Thumb strong over the upper half of the Mold, he nimbly catches hold Gages may fall into the Female-Gages, and at the same time the Foot of lower part of the Ball of his Thumb and his three hind-Fingers. Then he Mold in his left hand, . . . he clutches the ends of its Wood between the

the Furnance, and brings the Geat of his Ladle (full of Mettal) to the aforesaid in his left hand, he a little twists the left-side of his Body from Bodies of the Mold. (ME, 169) hand forwards to receive the Mettal with a strong Shake . . . into the him to turn the Mettal into it, while . . . he Jilts the Mold in his left Mouth of the Mold, and twists the upper part of his right-hand towards Then [he] takes up the Ladle full of Mettal, and having his Mold as

a unit of print technology, congruent to the body of the mold, or even the body of at the place where the two domains, human and machine, most often intersect. Later, and throughout his text clarifies for the reader whether body parts belong to momentarily saw no difference between the body of type and the human body.³⁰ dentals" as makers of meaning, whether purposefully or unconsciously employed.29 are today usually called "accidentals," this does not mean that, in the period type being made. Though patterns of italicization, spelling, punctuating and such the caster's entire body becomes italicized and therefore, in typographic terms at least, caster's thumb is italicized, as if this too were a piece of machinery, located precisely that this dichotomy may not be completely stable. Throughout, the "ball" of the gers" of the caster, for example. However, a few typographical slippages reveal sentient beings or inanimate objects--the "shoulder" of the notch versus the "Fin-Thus, it appears that Moxon's real-life compositor setting type for this book before widespread standardization, they were used carelessly. We may read "acci-For the most part, Moxon's italicization of printing terminology in this passage

comments on the "sordidness" and "ignoble" nature of "mechanick" toil, then, the coupling of man and machine that produces the body of type. The printed of machine and organism."31 It does not mean, however, that they have been object and body suggests that Moxon's workers are ultimately cyborgs, a "hybric the Stool," acting, so it seems, independently, hopping up on this piece of human through his body's actions—he clutches, lays, clasps, presses, etc.—as he brings sion. Although, through most of this description, the caster instigates the work which the hand of labor is always apparent.32 his book is not a product alienated from the sweat of the worker, but one in page, then, always bears traces of both bodies' labor. Despite Moxon's prefatory that make up the "whole art of printing" are always human exercises as well. It is reduced to mere cogs in a lifeless engine of print. The "Mechanical Exercises" furniture with its nimble human appendage. This blurring of the line between the male and female gages together, the "Foot of the Matrice place[s] it self upon Even the construction of the sentences in this passage reflects this confu-

A DISEMBODIED PRODUCT: SMITH'S TRANSPARENT

an essential commodity. As literacy spread and became an important vehicle for scene of printing. No major changes in the printing process itself can account for Smith's The Printer's Grammar, the human bodies have disappeared from the trade became wealthier, they often adopted the bourgeois value system of their supervising networks of distributors. As those at the top of this capital-intensive pects of the book-making process from hiring writers, to contracting printers and Booksellers became the privileged members of the trade, often managing all asboth entertainment and information, the demand for printed material increased however, had become a large, vital, even indispensable, business, and knowledge time, still sweating in workshops with the same tools and machines. Printing, their elision: workers proceeded for the most part, just as they had in Moxon's tentions did eventually become dominant. Almost seventy years later, in John bodily knowledge with a regime of reading, the discourses supporting those in-While Moxon's own text may have undermined his intentions to replace

> over the ramifications of the 1710 Act of Anne.³³ While little is known about Smith's arose over the implications of terms such as "authorship" and "piracy," as well as was now the institutionalized means of communication for a reading market. own life and social positioning, his text must be understood in this context: print market, the question of who owned what words became a crucial issue and debates readers, looking down on the physical labors of "rude mechanicals." In this thriving

objects and timeless methods. His opening sentence sets the tone: standardized, page. Indeed, he rarely discusses workers themselves, only opaque tion and workplace regulation that will result in a proper, that is, uniform and human scene of print making, but prescribes a system of typographical classificaboth the content and style of Smith's manual. His text does not describe the sweaty, The effects of this market-driven understanding of print can be seen in

consider them as the chief Printing-Materials; and in the course of this the art of speaking and writing some particular language, we shall we begin this also with the Principles therof, viz. LETTERS; with this Conformable to the General method which is observed in Grammars, have a judgement of Printing.34 as come under the cognizance of Printers, Booksellers, and others who Chapter treat of their Contexture, Superficial shape, and such Properties difference, that instead of applying their signification, as in others, to

of his text, while those who create, place, and distribute those letters are relegated state-of-being, and the subjects of sentences often abstractions, or at best generic ing context of language to help them make sense—are to be the subject and object and mechanical tools.36 in the several charts and tables that are interspersed in his treatise, privileging "we"-constructions that evacuate specific human agency from the scene of print. 13). As in this example, the verbs throughout the manual are often passive or in, nor for several other uses which it now serves, might be readily proved" (PG, tingly impersonal: "That Italic letter was not designed to distinguish proper names the sentence, pairing it with an active verb, Smith's sentences are, frequently, fittype of workman (Caster, Dresser, Compositor, Pressman, etc.) as the subject of to a relatively distant position. Unlike Moxon, who often uses the name of the Here Smith makes it clear that letters-by themselves, without even the supportpare the tables to Moxon's many illustrations of the interaction between people The difference in the underlying ideology here is especially striking when we comformula over actual procedure, and numeric symbol over the work of hands.35 This abstract and ungrounded nature of his view of the printed text is highlighted

ation. His text is thus full of prohibitions and regulations, "should not" and "ought that the bodies of type in England were not standardized, that is, that the font of to," in addition to his instructions, tables, charts, and mathematical calculations. incessantly about the variations in usage of italics, capitals, spelling, and punctuwastes money, but can wreak havoc in the orderly workplace. He also worries depth from founder to founder or house to house. In Smith's view, this not only one body, Greatprimer or Pica, for example, often varied in height, width, and type—but these bodies trouble him. His chief complaint, reiterated frequently, is Clearly, his ultimate goal is the regulation of these unruly bodies of type. The only bodies that seem to count for Smith, then, are the bodies of

and behavior was so obvious it could be ignored. and allowed attention to be diverted to descriptions/prescriptions of behaviors in difference rather than as ontologically distinct from it."39 In other words, the ly dyadic, experientially articulated and socially mediated expression of sexual tion in eighteenth-century discourse.38 Gender difference was treated "as a stricttermed it, lent authority to sociocultural norms, which became the locus of attencultural precepts. This "empowerment of the natural," as Michael McKeon has ed in these differences, rather than arising merely from a correct adherence to the separate spheres of male and female activities. 40 The connection between body biological basis of gender, considered a "given," simultaneously lent credence reproduces a view of sex and gender new to this period. Male and female bodies, were now seen as rigidly distinctive.³⁷ Gendered behavior was thought to be rootinstead of being perceived as points on a hierarchical but unitary continuum, physicality, but signifies a binary gender—a subtle yet important difference that sciences of the body inform his understanding of the proper use of letters. Unlike Moxon's copulating machinery, however, Smith's type does not directly reveal its ment objectivity supports Smith's distanced and impersonal prose, Enlightenment notions of the sexed and sexual body. Just as the structure of detached Enlightenpotential chaos: typography is understood here through mid-eighteenth-century in a striking "return of the repressed," the body reemerges to provide order to shown how the print worker is replaced in this manual by the printed letter itself, human characteristics otherwise missing from his agent-less text. Although I have In the process of ordering typography, however, he endows it with the

such sorts of Letter as never make a return neither of the principal nor interest" for itself, besides good interest for its long credit; thereby to ease the charges of explains, for a letter that is cast of good metal will last "so long as till it has paid largest body of readers-is also clear: the Roman's virtue is also his profit, Smith side appearance is often connected to the solid weight and heft of a virtuous soul essary accomplishments as well in its appearance, as substance" (PG, 4), but outdoes not "pronounce all Letter good which is new; but only such as has the necable for reasoned discourse in the public sphere. Of course, Smith cautions, he partner in sedition so reviled in post-Restoration diatribes into something suit-(PG,9). The accomplished and profitable Roman, then, keeps the printing house The link to the economic values of the rising middle class—who represented the dard, measured, and rational manner. Print has been transformed from the unruly houses, and marks him as worthy of widely disseminating information in a stantion male-whose contained, dignified demeanor makes him welcome in the best transformed into the modern, upright bourgeois citizen of England-by connotaconsiderable Printing-houses in this city" (PG, 7). In other words, this venerable line, besides well dressed; no wonder that it has recommended itself into the most when made well, "is generally cast of good metal, and to stand true, and exact in structured hierarchy of binary gender roles, he personifies type into implicitly Latin patriarch (the Roman's ancient connections are always stressed) has been increased use of his favorite letter form, the "good Roman" (PG, 4). This letter, the inner virtues appropriate to their roles. For example, Smith lobbies for the masculine and feminine forms, whose outward behavior and appearance reveal Smith's text relies on this kind of naturalization. Producing a predictably

> scription of this letter form might have come from an eighteenth-century conduct manual, such as The Art of Governing a Wife, with Rules for Batchelors (1747), stave off financial hardship and the moral decay of poverty. Indeed, Smith's denour, and very stayed in all his behavior."41 which dictated that a good husband "be sober in speaking, easy in discourse, solvent, just as middle-class behavioral norms were believed to simultaneously house, diligent in looking after his estate, . . . vigilant in what relates to his hofaithful where he is entrusted, discreet in giving counsel, careful of providing his

ence, culturally coded as private.44 en] make [them] enter more readily and warmly into friendships than men."43 bility: as John Gregory put it, "the temper and dispositions of the heart in [womconduct literature of the time, women were especially suited for this sort of sociathe private realm of the writer's innermost thoughts and feelings. According to extraneous to the main (masculine) text, they do still serve an important function. part of the text, he asserts, only "for varying the different Parts and Fragments" it can do its rigidly defined "women's work." It should never be used for the main ual letter to suit its textual classification. 42 Smith is interested as well in keeping and marks her social position, the letter dresser regulates the form of the individas proper attire both molds the woman's shape to a required feminine aesthetic tender-faced Letter within such degrees as required for each Body" (PG, 16). Just cutter, much like a good dressmaker, need take care "to keep the slopings of that before" (PG, 13). In order to present this type to its best advantage, the letterstates, which "is now in England of such a beautiful cut and shape as it never was graces are a point of national esteem: it has a "soft and tender face," Smith proudly companion to the Roman. It is specifically an object of display whose feminine and within specified confinements, can serve as a useful and decorative feminine with those he seems to consider feminine. The italic, he argues, if used properly Introductory writing moves the reader from the public realm of buying a book to (PG, 14), such as prefaces and dedications. Though these items are, of course, the italic within proper cultural boundaries, deploying it only in the places where Thus a feminine font prepares the reader for the intimacies of the reading experi-Not surprisingly, Smith contrasts the characteristics of masculine fonts

and print, italic facilitated the transition from personal manuscript to market social position and mobility. Just as the "authentic" feelings stirred by the roby taste and propriety, in order to trade intimacy for her father's or husband's marriage market, set up as an aesthetically and sexually desirable lure, bounded er and writer. As such, it is analogous to the eighteenth-century woman on the italic is the feminine object of exchange between the implicitly masculinized readinside the book by erasing the print shop as mediator between author and reader. thus be seen as working to authenticate the mass-produced, impersonal contents mark guaranteeing authenticity.45 Italic prefatory material, though printed, can hand, though it became in the seventeenth century the hand of the signature, the commodity. The italic hand was traditionally (from the Renaissance) a woman's pography most closely linked to handwriting, existing on the border between pen mance plot and contained within the companionate marriage masked women's (The ramifications of this erasure are discussed below.) Structurally, then, the This ideology has a material history as well. As the form of English ty-

market exchange: money for print text. 46 position as a marketable commodity, the italic softened and made personal a cold

only an accident of geography links the fallen "Italian" to the noble "Roman," terms that rely on discourses of gender and nationalism. descendent of the Roman citizen, and the Roman font his appropriate medium. who signifies the stability of Augustan classicism; the English man is the true ly Italian women, were thought to be amorous and intemperate.⁴⁸ It seems that also be linked to its etymological origins as the Italian hand, for Italians, especialhussy on display in Covent Gardens. The view of the italic as promiscuous may ing the italic; instead, the out-of-control italic parades itself around, like a brazen tence construction here too is telling: he does not complain about printers misusthat their parading so very promiscuously may be prevented" (PG, 14). His senfor the days of the italic's "former purity," but states that it "yet may it be hoped the nadir of feminine humiliation. Smith, like reformers in other spheres, longs titution reform movement, texts which told the story of women led by passion to diatribe against the overuse of the italic, Smith echoes the texts used in the prosits downfall, for it lacks the rationality necessary for true self-control.⁴⁷ In his mid-century women of sensibility, it possesses "a particular delicacy" (PG, 16) Thus the italic is the dark other of the Roman, the projection of its excess, in The virtue of the italic's sensibility, however, is also the quality which can lead to Smith does make clear that the italic is a fragile vessel of feeling: like the

erect position, by themselves. But their bold and distinguishing aspect is greatly asserts, "make a fine appearance in Inscriptions, Titles, or other matter, where Smith's ideal Roman letter represents a solitary, self-contained masculinity. obstructed by . . . Italic " (PG, 50). Erect and by itself, free of the polluting Italic their beauty is not invaded by Italic, but where they present themselves in their threat even to that most phallic of letters, the capital. "Large capitals," Smith bold appearance is diminished. Feminine type outside its sphere is a castration Roman letter "suffers by being interlarded with Italic" (PG, 13) in that its usual latter be used for such purposes as it was design'd for" (PG, 13-14). Indeed, the the intermixing Roman and Italic may be brought to straighter limits, and the which of the two has the advantage of the other. It is therefore to be wished, that Italic are . . . should sometimes be maimed in such a matter as not to be known mixing of the fonts leads to an unclear hierarchy and a devaluation of both types: set the natural order and balance of his typographical universe. An indiscriminate "What a pity," Smith laments, "that two such significant Bodies as Roman and These visions of the italic running amok trouble Smith because they up-

cording to arbitrary or contingent conventions: embodying gender itself, they of as material products constructed through the labor of man and machine acto make print invisible. Black letters on white pages no longer needed to be thought were as natural. Thus, the ideal print product is to Smith an inhuman, yet decidsexed subjects of typography, Smith's regulatory discourse serves, paradoxically, to the proper appearance and spheres of type, and his discussion of letters as the teenth century. Despite-or perhaps because of-his almost obsessive attention derstanding of the role of print technology and print workers in the mid-eigh edly masculine, consciousness, not reliant on the labor of workers. Indeed, ac-Smith's gendered bodies of type have important ramifications for the un-

> als. The Mechanick Exercises ends with an image of human celebration, as Moxcategorization. That this is a markedly different view from that expressed in an a list "Of Physical Signs and Abbreviations," emphasizing the rupture between go their ways; but others that stay, are Diverted with Musick, Songs, Dancing, on describes the trade's May Day feast: "This Ceremony being over, such as will earlier period is best emphasized by comparing the conclusions of the two manuknowledgment of the work of print would threaten the stability of its normative endless deferral. The headpiece for the first chapter of Smith's text is the most festivity is nowhere to be found in The Printer's Grammar, which concludes with ception is truly immaculate.49 necessary in its creation; it results from the proper and complementary organizaauthority, a supreme logocentrism. No humans, much less sweaty laborers, were ethereal and other-worldly, but never inconsequential. Instead, it claims divine peting as if proclaiming the word of God. The text, evidently located in heaven, is telling, however. The book-or, rather, The Book-is held aloft by angels, trumlanguage and the physical world, in which signs refer only to other signs in an Farcing, etc. till at last they all find it time to depart" (ME, 331). Such warm tion of interiorized gendered behavior, not from messy sexual machines. Its con

RISING AUTHORS, RECEDING PRINT

mations were consolidating a view of authorship that was common sense by the pure transcendent mind, unsullied by bodily concerns or effects. Over a decade of among a number of workers in the print trades. The finished work of genius is end of the century.50 The god-like source of Smith's text morphed into a secular was "disappeared." Even as Smith wrote, courtroom battles and aesthetic proclarise of capitalist market economy. In fact, print itself is seen to have caused proclaims, of course, yet there is still a sense in much writing that the emergence of critical work in the field of authorship studies has done much to demystify such because he is compelled by an almost spiritual calling-not because he is one version: it became the solitary, original, and implicitly male genius, who creates contrast to the more fluid identities allowed in networks of manuscript exchange. prietary authorship, constructing a stable, marketable persona, the Author, in the author was inevitable, given the discourse of possessive individualism and the force, usually represented by male writers eager to seize new opportunities."51 As Margaret Ezell notes, "print publication takes on the role of the revolutionary Historically, Smith's view of the book became dominant, while Moxon's

power is also apparent the few times he does address the role of writers. To Moxart of book making. That they are much more than mere instruments of a higher him: "it is Necessary," Moxon tells us, that "the Compositers Judgement should only aiding the author in articulating his points, but sometimes even supplanting to the making of meaning. Indeed, he describes the job of the compositor as not on, as well as many others in his period, a text producer was only one contributor have seen how Moxon casts workers (with tools and machines) as crucial to the that this heroic author is an ideological, rather than a technological, outcome. We know where the Author has been deficient, that so his care may not suffer such Work to go out of his Hands as may bring Scandal upon himself, and Scandal and The printers' manuals under study here, however, help us understand

er with a fruitful and productive synergy that a worthy text is completed. cannot always be trusted to provide a coherent text. It is only by working togething house, then, the compositor's first duty is to his Master, not the writer, who prejudice upon the Master Printer" (ME, 219). In the hierarchy of Moxon's print-

use of ambiguous flower conceits, he exclaims, raphy helps readers in the case of authorial incompetence. Describing a writer's Andrew Marvell, also comments, though satirically, on the ways in which typogresponsibility, in virtually any field of writing."52 A contemporary of Moxon, sentations of their domains affected every character and every leaf of their prodand perhaps incomplete, record" and alterations were easily made "because they priori, virtually any element in a work might or might not be the Stationers' the individual author would be virtually impossible in these circumstances . . . A ucts. Isolating a consistent, identifiable, and immutable element attributable to managing publications, Stationers . . . controlled events. The practices and repreheld in their hands no sacrosanct text at risk of desecration." He continues, "In means one of slavish reproduction . . . The written sheets represented a fallible, od: "when written materials were reproduced in print the process was by no to the important and creative role played by those who made books in this peri-This dynamic is not unique to Moxon. Adrian Johns calls our attention

to make us yield to their importunity: and among the rest, they promise smell out the sence of it. But it is printed in a distinct Character, & that is always a certain sign of a flower. For our Booksellers have many Arts us... that wheresoever there is a pretty Conceit, it shall be marked out And to this succeeds another Flower, I am sure, though I can scarce

the booksellers Francis Kirkman and John Dunton.⁵⁴ tualizing and managing print projects, can also be seen in the autobiographies of intellectual aspects of text making, such as writing, translating, as well as concepten from within the trade, of the involvement of print workers in "creative" or recourse to his "arts" that provides the text with its legibility; he hints (if scornfully) at the powers to which readers must "yield." More serious accounts, writ-Marvell's judgments of such writing aside, it is clear that it is the booksellers

would have the Reader imitate him in his emphatical delivery, how can a writer spelling or punctuation. Thus he stresses that "it is impossible for a Compositor amanuensis; he should leave no mark of his own personality, no unique quirks in emphasis, he insists, helps to "inform the Compositor of an Author's intention" to guess at an Author's manner of expressing himself . . . and if [the Author] part of the Author's near theological immanence. The compositor is merely an for to him the smallest mark on a page is fraught with authorial importance and Smith does not trust his compositors even with the task of punctuating properly, (PG, 51). The former's duty is obviously to encapsulate the latter. Unlike Moxon, make their minds more transparently evident in the text; choosing a mode of pate in the composing process, even in the selection of accidentals, in order to of the ethos of the second half of the century, insists that writers actively particiwriter, and a concomitant change in knowledge production. Smith, representative In Smith's manual, on the other hand, we see a gap between printer and

> anticipating the reader's later subordination. The resulting division of labor placassembled to hold the Author's mind. Typography only exists to be written and merely a factory in which lifeless pieces, meaningless in and of themselves, are es genuinely creative work in the Author's garret and constructs the print shop as the delegation of production duties, print workers acquiesce to the Author's will. intimate it better than by Pointing his Copy himself?" (PG, 86). In this model of read through, invisibly to convey the soul of writing.

allowed them copious amounts of time to edit and even revise their previously always deferential when writing to the authors whose work he published. He ary history through his anthologies, and a popular playwright himself, he was is apparent in the pride he took in his well-known moniker, the "Muse's Midpublished work (work for which he owned the copyrights), even when it hurt him importance as progenitor and publisher of Johnson's Dictionary, creator of literin the correspondence of Robert Dodsley, a mid-century bookseller. Despite his financially to do so. Indeed, the extent to which he accepted this subordinate role That this discourse produced (and reflected) real-life practices is evident

growing popularity of ideas promoting natural genius and authorial originality. mantically removed from words on pages-except when their sloppiness causes relegated to mechanical processes, seemingly isolated from text-making, and seuniformity. He does address the bodies of workers in chapter 13, but they are compositors is to adopt a "system" that allows for expediency, accuracy and authors to mark texts as carefully and precisely as possible.56 His chief advice to much of Smith wholesale into his own text, is even more explicit in advising textualized rationalism: Stower strongly suggests posting in the office detailed smudges to the proofs. In fact, it is clear that the workplace itself is now subject to the "groundwork" of his own 1808 Printer's Grammar, and who appropriates ing, but virtually copying Smith's text. Caleb Stower, who calls Smith's Grammar Even into the nineteenth century, printers' manuals were not only acknowledg-"rules and regulations" in order to "preserve order and regularity."57 As the century waned, such attitudes persisted, bolstered perhaps by the

and the industrialization of print, when the physical labor of print workers was and press the type, and instead signifies directly to the disembodied mind of the comes a dimorphically gendered entity: standardized, consistent, and therefore of the artefact's production."58 Smith's idealized text, however, erases work by with nature, and everything to do with naturalizing the suppression of the signs tation, into the conventions of the bourgeois naturalism which has nothing to do tion has quite 'disappeared' into . . . the closed factory, or at the level of represensents what Francis Barker has described as "a discursive situation before producvalued, and the final book bore traces of their presence. Thus Moxon's text repreprint work was understood. Moxon describes a time before the Romantic Author ship began to reconstruct the printing house and reconstitute the ways in which text thus allows us to glimpse some of the ways in which the ideology of authortransparent. Smith's typography, then, bypasses the workers who cast, dress, set, positing a natural, scientifically categorized body of type. The print product be-The movement from Moxon's embodied print to Smith's metaphysical

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Maruca / Bodies of Type

One must be wary, however, of idealizing Moxon's print shop. Earlier in this essay I purposely used Donna Haraway's term "cyborg" to describe his mechanistic coupling of man and machine, for her term, while celebrating the "pleasure in the confusion of boundaries," sees the cyborg as neither essentially subversive nor essentially repressive. Moxon's appreciation of the human worker was not necessarily liberating, just as actual print shop practices under the regime of Master Printers like Moxon's were not without their own hazards. The rules of the Chapel were strict and punishment was corporal. Apprentices were tracked into their field at a young age and forced to withstand physically demanding work, long hours, and a curtailment of their personal freedom. More subtle forms of repression are also evident: the sexualized machinery relies on and supports a rigid model of heterosexual penetrative sexuality, and despite Moxon's use, throughout his text, of masculine pronouns for workers, many women were involved in the late seventeenth-century business of print, women whom Moxon effectively erases from the scene.⁶⁰

The shift from Moxon to Smith, however, marks a move from explicit violence to repressive discourse, from the worker who might, as a result of being punished, "piss Blood, and shortly after dye," to the Cartesian subject who denies corporeality. In the mind-body split, the body is the secondary and feminine term. Before this move, in the seventeenth and early eighteenth centuries, women flourished as print-trade workers. Smith's masculinization of the print product, however, submits them to a double erasure, both as women and workers. They are relegated instead to the ghetto of sociability and feeling, meant at best, as the italic, to dress up a text or, as readers, to consume it passively. Ideologies such as Smith's had material results: the number of women involved in the print trade dwindled in the second half of the eighteenth century.⁶²

In examining these printers' manuals, I have tried to show that the medium of print has never been—and was not always thought to be—a pure or neutral form of communication, but one which always conveys and supports a specific ideological regime. I have traced a narrative about the provenance of knowledge, a struggle between intellectuals and professional writers on one side, and artisans and workers on the other. I have shown print transform from the work of the body to the carrier of the mind. And despite the Romantic Author's rejection of all things commercial, the moral of this story illustrates that the rise of authorship went hand in hand with the creation of the print text as commodity. This idea turns our standard teleology on its head, as it poses the Author as the creator of print, rather than vice-versa. The ideology of authorship deployed for its own benefit an enduring vision of print as fixed, standardized, and invisible. To adopt these notions as an "essential" aspect of the print medium is to accede to this regime.

NOTES

I wish to thank Martha Woodmansee for suggesting the introductory quotes and providing inspiration, mentoring, and constructive criticism in this essay's germinal stages. I also appreciate Jeffrey Masten's useful and supportive critique of an early draft. I am grateful as well for the close reading supplied by ECS reviewers, for their tactful candor, and for the lengthy, detailed, and perceptive notes that aided my revision. Academic writing is indeed the work of many hands.

- 1. At the time of publication, Moxon was attempting to become the letter founder for the Oxford University Press, which was engaged in a dispute with the Stationers' Company over printing privileges. This, most likely, is why he argues in his preface that printing came to England through Frederick Corseles in Oxford, not through Caxton in London, as was commonly believed. See Joseph Moxon, Mechanick Exercises on the Whole Art of Printing, eds. Herbert Davis and Harry Carter (New York: Dover Publications, 1958), xlix-li, hereafter ME. Further citations will be parenthetical.
- 2. John Feather, "The Book in History and the History of the Book," Journal of Library History (1986): 13. Feather's essay is a defining text for this field, as is Robert Darnton, "What is the History of the Book?" in Books and Society in History, ed. Kenneth Carpenter (New York: R.R. Bowker, 1983), 32–6. Much of early bibliographic research, characterized by painstaking reconstructions of archival material, is useful to contemporary scholars, despite its underlying logic of empiricism and its reliance on a narrative of natural progress, whether aesthetic or technological. More recent research, however, combines historical evidence and an attention to the materialy of texts with cultural and literary theory. Examples include essays in Language Machines, eds. Jeffrey Masten, Peter Stallybrass, and Nancy J. Vickers (New York: Routledge, 1997); Paula McDowell, The Women of Grub Street: Press, Politics and Gender in the London Literary Marketplace 1678–1730 (Oxford: Clarendon Press, 1998); and Adrian Johns, The Nature of the Book: Print and Knowledge in the Making (Chicago: Univ. of Chicago Press, 1998).
- 3. Technological determinism haunts Elizabeth Eisenstein's otherwise groundbreaking *The Printing Press as an Agent of Change: Communications and Cultural Transformations in Early-Modern Europe* (Cambridge: Cambridge Univ. Press, 1979), in which she outlines the "communications revolutions" wrought by Gutenberg's invention and the social changes that derive from the new medium of print. Her title explicitly credits the technology itself with subsequent cultural transformation, a potential problem she addresses when she writes in her preface that she "would have liked to underline the human element in [her] title by taking the early printer as [her] 'agent of change.'" Eisenstein calls certain master printers "unsung heroes" and "the true protagonists of this book." Nonetheless, she does concede that "impersonal processes involving transmission and communications must be given due attention" (xv) and in fact, the work of master printers and others in the print trade become in her text merely an effect of an always already installed technology.
- Michael Warner, The Letters of the Republic: Publication and the Public Sphere in Eighteenth-Century America (Cambridge: Harvard Univ. Press, 1990), 5.
- 5. Warner, Letters, 6.
- 6. See, for example, Alvin Kernan's description of Samuel Johnson as a product of print logic in Samuel Johnson and the Impact of Print (Princeton, NJ: Princeton Univ. Press, 1987). Similarly, work on hypertext and electronic writing often assumes that regimes rising directly and inevitably as a result of print are toppling as the essentialized technology of the computer becomes dominant. See Jay David Bolter, Writing Space: The Computer, Hypertext, and the History of Writing (Hillsdale, NJ: Lawrence Erlbaum Associates, 1991); George Landow, Hypertext: The Convergence of Contemporary Critical Theory and Technology (Baltimore: Johns Hopkins Univ. Press, 1992); and Richard A. Lanham, The Electronic Word (Chicago: Univ. of Chicago Press, 1993).
- 7. For the importance of rhetoric in assessing Renaissance print culture, see Wendy Wall, The Imprint of Gender: Authorship and Publication in the English Renaissance (thaca: Cornell Univ. Press, 1993), 20–1. For the various strategies used in late seventeenth-century England to legitimate print and to authorize the knowledge it disseminated, see Johns, The Nature of the Book, 138–150.
- 8. Philip Gaskell, Giles Barbet, and Georgina Warrilow, "An Annotated List of Printers' Manuals to 1850," *Journal of the Printing Historical Society* 4 (1968): 13. Herbert Davis and Harry Carter explain that Moxon's volume "was appropriated by compilers of technical encyclopedias and printers' grammars; thus, parts of Moxon, disguised under other names, remained a standard textbook until the great bulk of printing ceased to be a 'handy-work'" (*ME*, vii). For more on the influence of Moxon and Smith, see also Herbert Davis, "Catalogue of an Exhibition of British and American Printers' Manuals at Dartmouth College," *Printing and Graphic Arts* 5 (1957): 1–33; and E. C. Bigmore and C. W. H. Wyman, *A Bibliography of Printing* (London: Bernard Quaritch, 1884). Moxon's and Smith's manuals can be usefully compared to similar texts written in this period, which also reveal a self-consciousness about printing. These include James Watson, *The History of the Art of*

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Printing (Edinburgh: printed and sold by J. Watson, 1713); Samuel Palmer, The General History of Printing (London: printed by the author and sold by his widow and by J. Roberts, 1732); Conyer Middleton, A Dissertation concerning the Origin of Printing in England (Cambridge: printed for W. Thurlbourne, 1735); and Joseph Ames, Typographical Antiquities: Being a Historical Account of Printing in England (London: printed by W. Faden, 1749); as well as shorter pieces in encyclopedias and dictionaries of the trades or sciences. Moxon and Smith are still the most frequently quoted today, and their works exist in recent reprints.

- 9. Eisenstein, The Printing Press, 383. See also ME, li.
- 0. See Eisenstein, The Printing Press, 553-63.
- 11. For a more detailed description of these and other factors leading to a loss of guild power in this period, see Peter Earle, The Making of the English Middle Class: Business, Society and Family Life in London, 1660–1730 (Berkeley: Univ. of California Press, 1989), 250–68.
- 12. For the following details on the print trades in this period, I am indebted to John Feather, A History of British Publishing (London: Croom Helm, 1988). See especially 43–63.
- 13. For a detailed reading of the political and symbolic role of Stationers' Hall and the Stationers' Register in preserving their power, see Johns, *Nature of the Book*, 187-248.
- 14. See ME, xxvii-xxviii, 370. As a freeman of the city (a member of the Weaver's Company), Moxon may have been protected by a 1614 legal decision which allowed any freeman to practice any trade. See Earle, The English Middle Class, 250-68. Moxon's position as official Hydrographer to the King may also have allowed him printing privileges. At the time Mechanick Exercises was published, the Licensing Act was in abeyance (it lapsed in 1679 and was not renewed until 1685), but Moxon, as well as many other unofficial printers, published books before this time.
- 15. Moxon's expertise in this scientific realm was cemented when he became Hydrographer to the King in 1662. Moxon's two occupations were interdependent, however. Most of the books he sold, whether he served as writer or printer, were popularizations of science. His authored textbook, A Tutor to Astronomie and Geography (London, 1659), went through five editions in forty years. See ME, xxii—xxv, xxxi, and Bigmore and Wyman, Bibliography, 56–63. Books like these created a market for the sale of his scientific tools by educating amateurs. Eisenstein, The Printing Press, 557, explains this linkage: "the output of mathematical-instruments, atlases, globes and 'theatres of machines' should also be related to the new possibility of profiting from disclosing instead of withholding the tricks of the various trades."
- 16. Eisenstein, The Printing Press, 558.
- 17. See Walter E. Houghton, Jr., "The History of Trades: Its Relation to Seventeenth-Century Thought: As Seen In Bacon, Petty, Evelyn, and Boyle," Journal of the History of Ideas 2 (1941): 33-60. For Moxon's connections to Society members, see Johns, The Nature of the Book, 80-1.
- 18. For examples, see Gaskell et al, "Annotated List," 11; Herbert Davis, "Catalogue," 22; and Eisenstein, *The Printing Press*, 154.
- 19. Similarly, when Petty envisions his audience for the history of trade, he refers to customers, scholars, divines, students, and mathematicians among others, but does not mention any practitioners.
- 20. Joseph Moxon, Mechanick Exercises or the Doctrine of Handy-Works (New York: The Early American Industries Association, 1979), n.p.
- 21. See Houghton, "The History of Trades," 54.
- 22. Cited in Nancy Armstrong and Leonard Tennenhouse, The Imaginary Puritan: Literature, Intellectual Labor, and the Origins of Personal Life (Berkeley: Univ. of California Press, 1992), 98.
- 23. Of course, such distinctions were not new to this period. See, for example, Patricia Parker, "Rude Mechanicals," in *Subject and Object in Renaissance Culture*, eds. Margreta de Grazia, Maureen Quilligan, and Peter Stallybrass (Cambridge Univ. Press: 1996), 43–82.
- 24. Armstrong and Tennenhouse, The Imaginary Puritan, 97, linking the writing of Restoration intellectuals with the rise of the middle class, similarly note that Thomas Sprat's History of the Royal

Society "subordinates those who work with their hands to those who think and write." However, while their study references "print culture" and the role of the press in creating a public sphere, it mostly deals with "writing" in its general, textual sense, not specifically print as a unique form of information transmission.

25. Moxon, The Doctrine of Handy-Works, n.p.

- 26. I am not asserting that this promotion of print mirrored reality. In this period, despite the Stationers' Company's loss of power, most printers still learned their trade through apprenticeship and would have no need for such a book. In fact, research on the spread of early modern technical knowledge suggests that practical changes were rarely instigated by printed texts. See Peter Mathias, "Who Unbound Prometheus? Science and Technical Change, 1600–1800," in Science and Society, ed. Peter Mathias (Cambridge: Cambridge Univ. Press, 1972), 54–80; and Carlo Cipolla, Before the Industrial Revolution: European Society and Economy, 1000–1700 (New York: W.W. Norton & Co., 1976).
- 27. See Thomas Laqueut, Making Sex: Body and Gender from the Greeks to Freud (Cambridge: Harvard Univ. Press, 1990), esp. 134-48.
- 28. This hierarchy is a microcosm of the larger political structure, described by Thomas Hobbes in his 1631 Leviathan as a giant artificial man made up of individuals who are the "atoms" of the body politic. The Sovereign, like the Master Printer, rules the social body. A full political reading of Moxon is outside my purview here, but I want to point out that he does, by implication, stress the print shop's position in a larger cultural context. This comment also may reflect Moxon's insecurities about his own position as both Royal Society "intellect" and embodied printer-worker. He reminds his readers that a master printer, such as himself, is different: as soul, he transcends "ignoble" Mechanicks. At the same time, however, it is clear from Moxon's text that the two aspects, soul and body, cannot exist without each other.
- 29. D. F. McKenzie, Bibliography and the Sociology of Texts: The Parnizzi Lectures, 1985 (The British Library, 1986), 83-4, discusses the problem with the term "accidental" and the importance of recovering accidentals as textually significant. He is interested, however, in the way these make up a book's "organic form" and so reveal an author's more nuanced intentions. I am not trying to pinpoint Moxon's intentions, but instead insist that "accidentals" be taken as part of the typographic sign system which forms the interface between text and reader and so cannot help but affect reception. A text is understood to a great extent through its typography and screening out some of its elements imposes an anachronistic reading style.
- 30. I discuss below the role of the compositor in the construction of print meaning.
- 31. Donna Haraway, "A Manifesto for Cyborgs: Science, Technology and Social Feminism in the 1980s," rpt. in Feminism/Postmodernism, ed. Linda Nicholson (New York: Routledge, 1990), 191.
- 32. Robert Darnton, The Business of Enlightenment: A Publishing History of the Encyclopédie, 1775-1800 (Cambridge: Harvard Univ. Press, 1979), 228-30, discusses a literal example of this: an inky fingerprint left behind by "Bonnemain," one of the printers of the Encyclopédie. He also asserts that "in the era of the handmade book there existed a typographical consciousness that disappeared sometime after the advent of automatic typesetting and printing . . . Every page, every line has its individuality. Each character bears the imprint of a gesture made by someone like Bonnemain" (236). This "typographical consciousness" is one, I have shown, shared by Moxon; that it disappeared in England well before the advent of automated printing I detail below.
- See Mark Rose, Authors and Owners: The Invention of Copyright (Cambridge: Harvard Univ Press, 1993).
- John Smith, The Printer's Grammar, ed. D. F. Foxon (London: Gregg Press, 1965), 1 (hereafter, PG).
- 35. See, for example, Smith, PG, 24-7, 42-6.
- 36. See, for example, Moxon, ME, 163, 201, 206, 280, 283, 313-314.
- 37. See Laqueur, Making Sex, 149-92.
- Michael McKeon, "Historicizing Patriarchy: The Emergence of Gender Difference in England. 1660–1760," Eighteenth-Century Studies 28 (1995): 302.

- 39. McKeon, "Historicizing Patriarchy," 302
- Roles, Representations and Responsibilities (New York: Longman, 1997), esp. 1-28. See also Hannah Barker and Elaine Chalus, eds., Gender in Eighteenth-Century England:
- more detailed and nuanced description of the divided sphere of masculine and feminine behaviors as 1650–1850: The Emergence of Separate Spheres? (London: Addison Wesley Longman: 1998), 15represented in conduct manuals and other texts, see Robert B. Shoemaker, Gender in English Society 41. [Anon.], The Art of Governing a Wife, with Rules for Batchelors (London, 1747), 3. For a
- such a way as to conceal any blemishes, and set off your beauties, if you have any, to the greatest "Dress is an important article in female life" and advised that "good taste will direct you to dress in 42. For example, John Gregory, in A Father's Legacy to his Daughters (London, 1774), notes that
- Gregory, A Father's Legacy, 73.
- eration than that of Writing a private Letter to a Friend." Cited by Lawrence E. Klein, "Gender and interiority, see also Nancy Armstrong, Desire and Domestic Fiction: A Political History of the Novel teenth-century domestic woman, charged with overseeing the private-sphere realms of emotion and given in the *public Assemblies...*But visit every one, and converse with them in their own *private* (Oxtord: Oxtord Univ. Press, 1987), 59–95. lytical Procedure," Eighteenth-Century Studies 29 (1995): 106. For more on the role of the eighthe Public/Private Distinction in the Eighteenth Century: Some Questions About Evidence and Ana-Houses. And therefore the Teaching, or Instruction thereby given is private: and of no other Considlick, in that it is presented to every ones View: Yet...Books are not Read, and the Instruction by them "what is printed is published to the World, and the Instruction thereby given, is in this regard Pub-Scruple about the Lawfulness of Printing Any Thing Written by a Woman (1743), 158-9, argues that realm of print. Anne Dutton, in A Letter to Such of the Servants of Christ, Who May Have Any 44. Indeed, women writers could use this construction to argue for their inclusion in the public
- ford: Stanford Univ. Press, 1990), 138–9 and 233–4. See Jonathan Goldberg, Writing Matter: From the Hands of the English Renaissance (Stan-
- selves as objects of male desire within the matrimonial system, see Vivien Jones, ed., Women in the nomics of middle-class marriage, see Earle, English Middle Class, 177-204. Eighteenth Century: Constructions of Femininity (London: Routledge, 1990), 14–56. On the eco-46. For the ways in which eighteenth-century conduct manuals taught women to create them-
- that laborers and servants did not suffer from these disorders, not being as delicate, refined or sensito be prone to more frequent and violent attacks. Mullan describes how medical literature insisted suffered physically and mentally by such nervous disorders, women were the primary patients, thought lan, Sentiment and Sociability, 201-40, also claims that while sensitive men were believed to have ity: The Language of Feeling in the Eighteenth Century (Oxford: Clarendon Press, 1988), 98. Multive as women in the upper echelons of society (see 238–9). 47. For the problem of "excess" implied by sensibility, see John Mullan, Sentiment and Sociabil
- trasts the virtues of Ancient Rome with the debaucheries of modern Italy. a beautiful Italian" (cited in Jones, Women in the Eighteenth Century, 26). Chesterfield, too, conbrother confessing to his sister that "while I stay'd at Rome...the only loose amour I had, was with 48. Elizabeth Singer Rowe's Letters Moral and Entertaining, in Prose and Verse (1728) has a
- pédie eliminated a fundamental aspect of it: its culture." ical base—or recasting it as it ought to exist according to a more rational technology—the Encyclo to Darnton, The Business of Enlightenment, 242, "in stripping artisan work down to its technologhuman beings and does not mention anything about their ceremonies, humor, and lore." According environment. He also notes that the accompanying article "fails to say much about the craftsmen as workrooms with automaton-like workers, as opposed to the reality of a dirty, smelly, and loud work 49. Similarly, Darnton describes the plates on printing in the Encyclopédie as showing pristine
- ics (New York: Columbia Univ. Press, 1994). See also Rose, Authors and Owners, 49-66 50. See Martha Woodmansee, The Author, Art and the Market: Rereading the History of Aesthet.

- Press, 1999), 11. 51. Margaret Ezell, Social Authorship and the Advent of Print (Baltimore: Johns Hopkins Univ
- 52. Johns, The Nature of the Book, 104-5, 137.
- 53. Andrew Marvel, The Rehearsal Transposed (London: printed by J. D., 1672), 92.
- tunes of an Unlucky Londoner (London: printed by Anne Johnson, 1673) and John Dunton, The Moxon's, Dunton's text is also interested in the ways print workers are "embodied" in typography Life and Errors of John Dunton, Citizen of London (London: printed for S. Malthus, 1705). Like 54. See Francis Kirkman, The Unlucky Citizen: Experimentally Described in the Various Misfor-
- Michael F. Suarez, S. J. (London: Routledge/Thoemmes Press, 1997) Cambridge Univ. Press, 1988); and Robert Dodsley, A Collection of Poems by Many Hands, ed Dodsley, The Correspondence of Robert Dodsley, 1733-1764, ed. James E. Tierney (Cambridge: Dodsley: Creating the New Age of Print (Carbondale: Southern Illinois Univ. Press, 1996); Robert 55. For details on Dodsley's work as a bookseller, see Harry M. Solomon, The Rise of Robert
- 56. Caleb Stower, The Printer's Grammar, ed. D. F. Foxon (London: Gregg Press, 1965), vi.
- 57. Stower, The Printer's Grammar, 152-9, 371, 382-6
- 58. Francis Barker, The Tremulous Private Body: Essays on Subjection (Ann Arbor: Univ. of Mich-
- 59. Donna Haraway, "A Manifesto for Cyborgs," 191
- (London: Longman, 1996), 39-60; Margaret Hunt, "Hawkers, Bawlers, and Mercuries: Women and tion," Albion 18 (1986): 195-218. tute for Research History, 1984), 41–68; and Lois Schwoerer, "Women and the Glorious Revolu the London Press in the Early Enlightenment," in Women and the Enlightenment (New York: Instiny for William B. Todd, ed. O. M. Brack, Jr. (New York: AMS Press, 1996), 25–75; Maureen Bell. Women of Grub Street. Overviews of women in the print trades include C. J. Mitchell, "Women in the Eighteenth-Century Book Trades," in *Writer, Books and Trade: An Eighteenth-Century Miscella*-"Women and the Opposition Press after the Restoration," in Writing and Radicalism, ed. John Lucas 60. For the role of printing women in the construction of the public sphere, see McDowell, The
- ies in the Literary Imagination 34 (2001): 79-99. ical Propriety and Feminine Property: Women in the Eighteenth-Century English Text Trades," Stud-61. I discuss the relationship between female publishers and the domestic woman writer in "Polit-
- 62. See Mitchell, "Women in the Eighteenth-Century Book Trades," 31