

- **The social shaping of technology**

Second edition

Edited by

**Donald MacKenzie and Judy Wajcman**

4^ ^ ' v

HIBibliothek

^ W

**Open University Press**

- Contents

<i>Notes</i>	<i>on</i>	<i>contributors</i>	viii
<i>Acknowledgements</i>			x
<i>Editors'note</i>			xiii
<i>Preface to the second edition</i>			xiv

<b>Part One</b>	<b>Introductory essay and general issues</b>	
	Introductory essay: the social shaping of technology	3
1	Do artifacts have politics? <b>Langdon Winner</b>	28
2	Modest_Witness@Second_Millennium <b>Donna Haraway</b>	41
3	Edison and electric light <b>Thomas P. Hughes</b>	50
4	Inventing personal computing <b>Paul Ceruzzi</b>	64
5	Constructing a bridge <b>Eda Kranakis</b>	87
6	Competing technologies and economic prediction <b>W. Brian Arthur</b>	106
7	The social construction of technology <b>Ronald Kline and Trevor Pinch</b>	113
8	Redefining the social link: from baboons to humans <b>Shirley Strum and Bruno Latour</b>	116

- 9            Caught in the wheels: the high cost of being a female cog in the male machinery of engineering  
**Cynthia Cockburn**
- 10          Making 'white' people white  
**Richard Dyer**
- Part Two      The technology of production**  
Introduction
- 11          The watermill and feudal authority  
**Marc Bloch**
- 12          The machine versus the worker  
**Karl Marx**
- 13          Technology and capitalist control  
**Harry Braverman**
- 14          Social choice in machine design: the case of automatically controlled machine tools  
**David F. Noble** L
- 15          The material of male power  
**Cynthia Cockburn**
- 16          What machines can't do: politics and technology in the industrial enterprise  
**Robert J. Thomas**
- 17          Writers, texts and writing acts: gendered user images in word processing software  
**Jeanette Hofmann**
- 18          Learning by trying: the implementation of configurational technology  
**James Fleck**
- 19          Working relations of technology production and use  
**Lucy Suchman**
- Part Three    Reproductive technology**  
Introduction
- 20          The industrial revolution in the home  
**Ruth Schwartz** Cowan
- 21          A gendered socio-technical construction: the smart house  
**Anne-Jorunn Berg**
- 22          A woman's place: Dolores Hayden on the 'grand domestic revolution'  
**Moyra Doorly**
- 23          Inserting Grafenberg's IUD into the sex reform movement  
**Anni Dugdale**

24	The decline of the one-size-fits-all paradigm, or, how reproductive scientists try to cope with postmodernity Nelly Oudshoorn	325
<b>Part Four</b>	<b>Military technology</b>	
	Introduction	343
25	Cold war and white heat: the origins and meanings of packet switching Janet Abbate	351
26	Manufacturing gender in military cockpit design Rachel N. Weber	372
11	The American Army and the M-16 rifle James Fallows	382
28	The Thor-Jupiter controversy Michael H. Armacost	395
29	The weapons succession process Mary Kaldor	406
30	Theories of technology and the abolition of nuclear weapons Donald MacKenzie	419
	<i>Bibliography</i>	443
	<i>Index</i>	452