dandelon.com
© 2008 AGI-Information Management Consultants
May be used for personal purposes only or by
libraries associated to dandelon.com network.

The Social Construction of Technological Systems

New Directions in the Sociology and History of Technology

edited by Wiebe E. Bijker, Thomas P. Hughes, and Trevor J. Pinch

The MIT Press
Cambridge, Massachusetts
London, England

Contents

Preface *ix*
General Introduction *1*

I
COMMON THEMES IN SOCIOLOGICAL AND HISTORICAL STUDIES OF TECHNOLOGY

Introduction *9*

The Social Construction of Facts and Artifacts: Or How the Sociology of Science and the Sociology of Technology Might Benefit Each Other *17*
Trevor J. Pinch and Wiebe E. Bijker

The Evolution of Large Technological Systems *51*
Thomas P. Hughes

Society in the Making: The Study of Technology as a Tool for Sociological Analysis *83*
Michel Callon

II
SIMPLIFYING THE COMPLEXITY

Introduction *107*

Technology and Heterogeneous Engineering: The Case of Portuguese Expansion *111*
John Law

The Nelson-Winter-Dosi Model and Synthetic Dye Chemistry *135*
Henk van den Belt and Arie Rip

The Social Construction of Bakelite: Toward a Theory of Invention *159*
Wiebe E. Bijker

III
STRATEGIC RESEARCH SITES

Introduction *191*

Missile Accuracy: A Case Study in the Social Processes of Technological Change *195*
Donald MacKenzie

The Social Locus of Technological Practice: Community, System, or Organization? *223*
Edward W. Constant II

Regulatory Science and the Social Management of Trust in Medicine *243*
Henk J.H.W. Bodewitz, Henk Buurma, and Gerard H. de Vries

The Consumption Junction: A Proposal for Research Strategies in the Sociology of Technology *261*
Ruth Schwartz Cowan

Seeing with Sound: A Study of the Development of Medical Images *281*
Edward Yoxen

IV
TECHNOLOGY AND BEYOND

Introduction *307*

Reconstructing Man and Machine: A Note on Sociological Critiques of Cognitivism *311*
Steve Woolgar

Expert Systems and the Science of Knowledge *329*
H. M. Collins

References *349*
Contributors *373*
Name Index *377*
Subject Index *383*