

TABLE OF CONTENTS

PREFACE	vii
PETER KROES and MARTIJN BAKKER / Introduction: Technological Development and Science	1
WALTER G. VINCENTI / Engineering Knowledge, Type of Design, and Level of Hierarchy: Further Thoughts about <i>What Engineers Know...</i>	17
EDWIN T. LAYTON Jr. / Escape from the Jail of Shape; Dimensionality and Engineering Science	35
PETER KROES / On the Role of Design in Engineering Theories; Pambour's Theory of the Steam Engine	69
ANDRIES SARLEMIJN and MARC DE VRIES / The Piecemeal Rationality of Application-Oriented Research. <i>An Analysis of the R&D-History Leading to the Invention of the Plumbicon in the Philips Research Laboratories</i>	99
ROBERT FOX and ANNA GUAGNINI / Life in the Slow Lane: Research and Electrical Engineering in Britain, France, and Italy, ca. 1900	133
HARRY LINTSEN, GIEL VAN HOOFF and GEERT VERBONG / Mechanical Engineering in The Netherlands in the Nineteenth Century: Technology without a Professional Community	155
EDA KRANAKIS / Hybrid Careers and the Interaction of Science and Technology	177
JOHN M. STAUDENMAIER, S.J. / Science and Technology: Who Gets a Say?	205
ARIE RIP / Science and Technology as Dancing Partners	231
NAME INDEX	271