

TABLE OF CONTENTS

Editorial Statement VII

PART I:

The Institutionalisation of the Sciences:

Changing Concepts and Approaches in the History and Sociology of Science

EVERETT MENDELSON — The Social Construction of Scientific Knowledge	3
WOLFGANG VAN DEN DAELE — The Social Construction of Science: Institutionalisation and Definition of Positive Science in the Latter Half of the Seventeenth Century	27
WOLF LEPENIES — Problems of a Historical Study of Science	55
ROGER G. KROHN — Scientific Ideology and Scientific Process: The Natural History of a Conceptual Shift	69

PART II:

Social Relations of Cognitive Structures in the Sciences

PHYLLIS COLVIN — Ontological and Epistemological Commitments and Social Relations in the Sciences: The Case of the Arithmomorphic System of Scientific Production	103
GERNOT BÖHME — Cognitive Norms, Knowledge-Interests and the Constitution of the Scientific Object: A Case Study in the Functioning of Rules for Experimentation	129
RICHARD WHITLEY — Changes in the Social and Intellectual Organisation of the Sciences: Professionalisation and the Arithmetic Ideal	143
TREVOR J. PINCH — What Does a Proof Do If It Does Not Prove? A Study of the Social Conditions and Metaphysical Divisions Leading to David Bohm and John von Neumann Failing to Communicate in Quantum Physics	171

PART III:**Social Goals, Political Programmes and Scientific Norms**

WOLFGANG VAN DEN DAELE, WOLFGANG KROHN and PETER WEINGART – The Political Direction of Scientific Development	219
HELGA NOWOTNY – Scientific Purity and Nuclear Danger: The Case of Risk-Assessment	243
DOROTHY NELKIN – Creation <i>vs</i> Evolution: The Politics of Science Education	265
Index	289