

# CHANGE AND PROGRESS IN MODERN SCIENCE

*Papers related to and arising from the  
Fourth International Conference on History and Philosophy of Science,  
Blacksburg, Virginia, November 1982*

*Edited by*

JOSEPH C. PITT

*Department of Philosophy,  
Virginia Polytechnic Institute and State University,  
Blacksburg, Virginia, U.S.A.*



D. REIDEL PUBLISHING COMPANY

A MEMBER OF THE KLUWER



ACADEMIC PUBLISHERS GROUP

DORDRECHT / BOSTON / LANCASTER

## TABLE OF CONTENTS

Preface .....	vii
INTRODUCTION	
<i>JOSEPH C. PITT</i> / Reflections on Change .....	3
PART I. HISTORICAL DIMENSIONS	
<i>ALAN GABBEY</i> / The Mechanical Philosophy and Its Problems: Mechanical Explanations, Impenetrability, and Perpetual Motion .....	9
<i>KATHLEEN OKRUHLIK</i> / Ghosts in the World Machine: A Taxonomy of Leibnizian Forces .....	85
<i>R. W. HOME</i> / The Notion of Experimental Physics in Early Eighteenth-Century France.....	107
<i>GEREON WOLTERS</i> / Some Pragmatic Aspects of the Methodology of Johann Heinrich Lambert .....	133
<i>DANIEL HAUSMAN</i> / Classical Wage Theory and the Causal Complications of Explaining Distribution.....	171
<i>JACQUES VONÈCHE</i> / Genetic Epistemology in the Context of Evolutionary Epistemology.....	199

## PART II. CONCEPTUAL CONSIDERATIONS

<i>ILKKA NIINILUOTO</i> / Truthlikeness, Realism, and Progressive Theory-Change ...	235
<i>MARCELLO PERA</i> / In Praise of Cumulative Progress ....	267
<i>LARRY LAUDAN</i> / Kuhn's Critique of Methodology .....	283
<i>JOHN WORRALL</i> / Scientific Discovery and Theory- Confirmation .....	301
<i>DIDERIK BATENS</i> / Meaning, Acceptance, and Dialectics .....	333
<i>NICHOLAS RESCHER</i> / Extraterrestrial Science .....	361
INDEX .....	392