CONTENTS

MATHEMATISATION – DEMATHEMATISATION Eva Jablonka and Uwe Gellert	1
THE MATERIAL CULTURE OF CALCULATION Peter Damerow	19
IMPLICIT MATHEMATICS Yves Chevallard	57
TECHNOLOGY, MATHEMATICS AND CONSCIOUSNESS OF SOCIETY Roland Fischer	67
STUDENTS' FOREGROUNDS AND THE POLITICS OF LEARNING OBSTACLES Ole Skovsmose	81
THE "UNCIVILISED" SCIENTIST Renuka Vithal	95
DIVIDING THE KINGDOM Cliff Malcolm	107
VALUES IN MATHEMATICS AND SCIENCE EDUCATION Alan J. Bishop	123
SOME EXPLORATIONS INTO INHIBITORS AND FACILITATORS IN LEARNING MATHEMATICS Afzal Ahmed	141
DEVELOPING COMMON SENSE IN TEACHING MATHEMATICS Jeremy Kilpatrick	161
INTERNATIONAL INTERACTIONS IN MATHEMATICS EDUCATION Bill Atweh	171
THE MEDIA AND MATHEMATICS LOOK AT EACH OTHER Philip J. Davis	187
ACKNOWLEDGEMENTS	197
NAME INDEX	199
SUBJECT INDEX	205