Contents

| | Preface | i |
|---|--|----|
| | I. INTRODUCTION | |
| 1 | Learning About Teacher Change in the Context of Mathematics Reform: Where Have We Come From? Barbara Scott Nelson | 3 |
| | II. THEORETICAL PERSPECTIVES ON STUDYING TEACHER CHANGE | |
| 2 | Understanding Teachers in Transition: Characteristics of a Model for Developing Teachers Lynn Goldsmith and Deborah Schifter | 19 |
| 3 | Developing New Models of Mathematics Teaching: An Imperative for Research on Mathematics Teacher Development Martin Simon | 55 |
| 4 | On Understanding the Structure of Teachers' Beliefs and Their Relationship to Change Thomas J. Cooney and Barry Shealy | 87 |

| 5 | The More Things Change Gender, Change, and Mathematics Education Patricia B. Campbell | 111 |
|----|--|-----|
| | III. CONTEXT AND TEACHER CHANGE | |
| 6 | A Conceptual Framework for Studying the Relevance of Context to Mathematics Teachers' Change Douglas Jones | 131 |
| 7 | Teacher Learning in a Social Context: Integrating Collaborative and Institutional Processes with the Study of Teacher Change Mary Kay Stein and Catherine Brown | 155 |
| 8 | Mathematics Teachers' Change in the Context of Their Professional Communities Walter G. Secada and Lisa B. Adajian | 193 |
| | IV. STUDIES OF PROFESSIONAL DEVELOPMENT PROGRAMS IN ACTION | |
| 9 | Teacher Change and Mathematics K-4: Developing a Theoretical Perspective Cheryl A. Lubinski and Patricia A. Jaberg | 223 |
| 10 | Changing Teachers: Interactions Between Beliefs and Classroom Practice Megan Franke, Elizabeth Fennema, and Thomas P. Carpenter | 255 |
| 11 | Educational Reform and Professional Development Janet Stocks and Janet Schofield | 283 |
| 12 | Project IMPACT: Influencing and Supporting Teacher Change in Predominantly Minority Schools Patricia F. Campbell and Dorothy Y. White | 309 |

| 13 | Mathematics in Context: Impact on Teachers Thomas A. Romberg | 357 |
|----|---|-----|
| 14 | Mathematics Case Discussions: Nothing is Sacred Carne Barnett and Sharon Friedman | 381 |
| | V. SUMMARY AND SYNTHESIS | |
| 15 | Learning About Teacher Change in the Context of Mathematics Education Reform: Where Are We Going? Barbara Scott Nelson | 403 |
| | Author Index | 421 |
| | Subject Index | 429 |

vii

CONTENTS