

Contents

<i>List of Figures</i>	xi
<i>List of Tables</i>	xiii
<i>Preface</i>	xiv
<i>Acknowledgments</i>	xviii
Part I	
Overview of the Theory	1
1 From Problem Solving to Teaching and Beyond	3
2 The Big Picture	15
3 Reflections, Caveats, Doubts, and Rationalizations	46
Part II	
Studies of Teaching	63
Introduction to Part II: Structure of the Representations Used in this Book	63
4 Lesson Analysis 1: A Beginning Teacher Carrying Out a Traditional Lesson	69
5 Lesson Analysis 2: An Experienced Teacher Carrying Out a Non-traditional Lesson	88
6 Lesson Analysis 3: Third Graders! A Non-traditional Lesson with an Emergent Agenda	121
Part III	
Extensions, Generalizations, and Next Steps	157
7 Analysis of a Doctor–Patient Consultation: An Act of Joint Problem Solving	159
8 Taking Stock, Applications, and Next Steps	182

Appendix A: Notes on Connections	197
Appendix B: A Representation of Nelson's Lesson	201
Appendix C: Transcript of Jim Minstrell's Class Discussion of Measurement	204
Appendix D: Deborah Ball's Third Grade Class, Friday, January 19, 1990, Spartan Village School, East Lansing, Michigan	219
Appendix E: A Representation of Ball's Lesson	225
Appendix F: High-Priority Goals during the Lesson Segment Discussed in Chapter 6	228
Appendix G: General Description of Deborah Ball's Active or Potentially Active Orientations at the Start of the Lesson on January 19, 1990	229
<i>Notes</i>	231
<i>References</i>	237
<i>Index</i>	241