

Contents

Acknowledgments	vii
Foreword	ix
How to Use This Book	xi
Common Terms, Definitions, and Abbreviations	xiii
Executive Summary of Transformational Change Efforts: Student Engagement in Mathematics through an Institutional Network for Active Learning	xvii
Part I. Overview of SEMINAL	1
Chapter 1. The Student Engagement in Mathematics through an Institutional Network for Active Learning (SEMINAL) Project: An Overview	3
Chapter 2. Research Design and Methodology	19
Part II. Six Case Studies	35
Chapter 3. Phased Change University: A Multistage Approach to Educational Improvement	37
Chapter 4. All-In University: Changing Everything at Once	57
Chapter 5. Crossroads University: An Inflection Point Toward Educational Innovation	71
Chapter 6. Long-Term University: Building a Self-Sustaining System	93
Chapter 7. Critical Response University: When a Crisis Results in a New Improved Vision	111
Chapter 8. Grassroots University: Building Capacity through a Sustained Commitment to Instructional Innovation	125
Part III. Levers for Change	143
Chapter 9. Active Learning Mathematics	145
Chapter 10. Leadership	187
Chapter 11. Designing and Implementing Course Coordination	205
Chapter 12. Students' Experiences with Active Learning Mathematics	221
Chapter 13. Professional Development	243
Chapter 14. Use of Resources to Support Active Learning	261
Chapter 15. Culture and Equity	277
Chapter 16. Sustaining Active Learning	299

Part IV. Summarizing What We've Learned	319
Chapter 17. Conclusion: Sustainable Transformations	321
Author Bios	341
Index	345