## Contents

Par	t I Primary and Secondary Learning	
1	An Introduction to Flipping the Classroom Zachary Walker, Desiree Tan, Lenka Klimplová, and Huseyin Bicen	3
2	Instructional Design: Evidence-Based Practices in the Flipped Classroom	17
3	Flipping the Mathematics Classroom	35
4	Flipping the English Language Arts and Literacy Classroom Lisa A. Finnegan and Katie M. Miller	57
5	A Flipped English Class in a Korean Middle School: Changes in English Language Teaching, Classroom Interaction, and Learning Outcomes	77
6	Flipping Physical Education Classrooms for Grades K-12 Amanda K. McMahon and Donald D. McMahon	105
7	Flipping for Diverse Learners	121
8	The Flipped Computer Science Classroom: A Modern Approach to Programmed Instruction	135
9	Flipping the Secondary Classroom in China	149
Part	t II Higher Education and Adult Learning	
10	Flipped Learning at the University Level	171

11	Improved Learning Performance Based on a Flipped Classroom Concept—A Case Study Based on the Course Introduction to Management Accounting for Business Engineers Soeren Dressler and Thomas Rachfall	183
12	Flipping the Business Administration Classroom Lenka Klimplová	203
13	Flipping the Classroom in Teacher Education	221
14	Flipping Biomedical Science	239
15	Why Flip the Medical Resident Classroom? A Pilot Study in Singapore	255
16	Flipped Instruction Among Medical Students in Singapore Noi Keng Koh, Barry J. Fraser, and Wai-Han Hoi	269
17	Current Issues and Future Implications	287