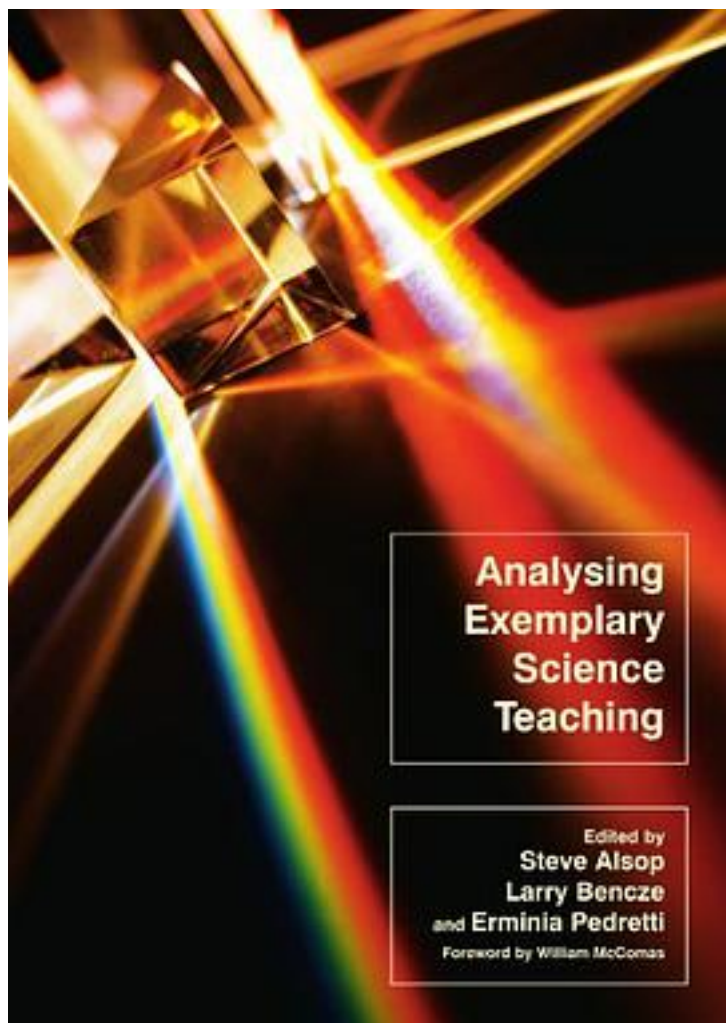


Analysing Exemplary Science Teaching



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出版者:McGraw-Hill

出版时间:2004-12

装帧:Pap

isbn:9780335213115

"I read lots of books in which science education researchers tell science teachers how

to teach. This book, refreshingly, is written the other way round. We read a number of accounts by outstanding science and technology teachers of how they use new approaches to teaching to motivate their students and maximise their learning. These accounts are then followed by some excellent analyses from leading academics. I learnt a lot from reading this book." Professor Michael Reiss, Institute of Education, University of London "Provides an important new twist on one of the enduring problems of case-based learning... This is a book that deserves careful reading and re-reading, threading back and forwards from the immediate and practical images of excellence in the teachers' cases to the comprehensive and scholarly analyses in the researchers' thematic chapters." Professor William Loudon, Edith Cowan University, Australia Through a celebration of teaching and research, this book explores exemplary practice in science education and fuses educational theory and classroom practice in unique ways. Analysing Exemplary Science Teaching brings together twelve academics, ten innovative teachers and three exceptional students in a conversation about teaching and learning. Teachers and students describe some of their most noteworthy classroom practice, whilst scholars of international standing use educational theory to discuss, define and analyse the documented classroom practice. Classroom experiences are directly linked with theory by a series of annotated comments. This distinctive web-like structure enables the reader to actively move between practice and theory, reading about classroom innovation and then theorizing about the basis and potential of this teaching approach. Providing an international perspective, the special lessons described and analysed are drawn from middle and secondary schools in the UK, Canada and Australia. This book is an invaluable resource for preservice and inservice teacher education, as well as for graduate studies. It is of interest to a broad spectrum of individuals, including training teachers, teachers, researchers, administrators and curriculum coordinators in science and technology education.

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