



Successful Science and Engineering Teaching in Colleges and Universities

Calvin S. Kalman

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This book offers broad, practical strategies for teaching science and engineering courses and describes how faculty can provide a learning environment that helps students comprehend the nature of science, understand science concepts, and solve problems in science courses.

The student-centered approach focuses on two main themes: reflective writing and working in collaborative groups. When faculty incorporate methods into their courses that challenge their students to critically reflect, collaborate, and problem solve, students gain a better understanding of science as a connected structure of concepts rather than as a simple tool kit of assorted practices.

Contents include:

- Reflective writing
- Writing to learn
- Constructing student knowledge
- Selected methods for using collaborative groups
- Changing students' epistemologies
- Training students to solve problems
- Using technology to aid your teaching

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