



Successful Science and Engineering Teaching in Colleges and Universities

By Calvin S. Kalman

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Based on the author's work in science and engineering educational research, 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.

This book's student-centered approach focuses on two main themes: reflective writing and collaborative groups. When faculty incorporate these methods into their courses, students gain a better understanding of science as a connected structure of concepts rather than as a toolkit 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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Editorial Review

Review

" ... A very practical work replete with carefully considered, useful, no-nonsense suggestions of ways to improve student learning in science and engineering classes ... Whether you are a beginning faculty member or one who has taught for some time, there is much to be gained from reading this book." (*Journal of Chemical Education*, October 2007)

From the Back Cover

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About the Author

Calvin S. Kalman is a professor in the Department of Physics, a fellow of the Science College, and a member of the Centre for the Study of Learning and Performance at Concordia University in Quebec.

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