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## Improving the Climate for Undergraduate Teaching and Learning in STEM Fields Spring 2009

By -

John Wiley and Sons Ltd, United Kingdom, 2009. Paperback. Book Condition: New. 224 x 147 mm. Language: English . Brand New Book. The quality of undergraduate education in science, technology, engineering, and mathematics (STEM) fields has been a national concern since the time of Sputnik. In spite of many reports on the state of STEM undergraduate education and multiple reform efforts, time-worn patterns of instruction persist in many STEM classrooms and laboratories. It is increasingly clear that major improvements to STEM undergraduate education require the interest and active engagement of key stakeholders, including STEM instructors, academic administrators, disciplinary societies, and government policy-makers. This volume looks at the challenges of enhancing STEM education from the perspective of these different stakeholders, including STEM instructors, academic administrators, disciplinary societies, and government policy-makers. Chapters discuss:OL P:\* The climate for undergraduate teaching and learning in STEM fields\* Supportive teaching and learning strategies in STEM education\* Advancing STEM teaching and learning with research teams\* Facilitating reforms in STEM undergraduate education: an administrative perspective\* Discipline-based efforts to enhance undergraduate STEM education\* The National Perspective: Fostering the Enhancement of STEM Undergraduate Education\* Preparing STEM Doctoral Students for Future Faculty Careers\* Climate Change: Creating Conditions Conducive to Quality STEM...



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