



Engineering Curricula: Understanding the Design Space and Exploiting the Opportunities: Summary of a Workshop (Paperback)

By National Academy of Engineering, Organizing Committee for the Workshop on Engineering Curricula: Understanding the Design Space and E, Committee on Investor Exit Strategies and Entrepreneurial Firm Growth

National Academies Press, United States, 2009. Paperback. Condition: New. Language: English . Brand New Book. In April 2009 a workshop was held to explore how engineering curricula could be enhanced to better prepare future engineers. The workshop, summarized in this volume, included individuals from industry, academia, government agencies, and professional societies. During the workshop participants addressed the rationale for the scope and sequence of current engineering curricula, considering both the positive aspects as well as those aspects that have outlived their usefulness. Other topics of discussion included the potential to enhance engineering curricula through creative uses of instructional technologies; the importance of inquiry-based activities as well as authentic learning experiences grounded in real world contexts; and the opportunities provided by looking more deeply at what personal and professional outcomes result from studying engineering. General themes that appeared to underlie the workshop attendees discussions included desires to (a) restructure engineering curricula to focus on inductive teaching and learning, (b) apply integrated, just-in-time learning of relevant topics across STEM fields, and (c) make more extensive use and implementation of learning technologies. During breakout discussions, many additional suggestions were offered for means by which to facilitate curricular innovation.



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Reviews

Very beneficial to all of class of people. I am quite late in start reading this one, but better then never. You may like just how the writer create this publication.

-- Audra Klocko PhD

Thorough information! Its this type of great go through. It is amongst the most incredible publication i actually have read through. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- Germaine Welch