

Training Engineering Students for Modern Technological Advancement

Engineering education leads the preparation of the next generation of engineers. This is a difficult task as engineering practices rapidly evolve, pressured by the technological advancements promoted by these same engineers. Engineering schools are integrated into large and rigid higher education institutions (HEI) that are not known for their agility. Nevertheless, engineering educators must have the agility to go beyond HEI boundaries to close the gap between professional practice needs and engineering education. Training Engineering Students for Modern Technological Advancement examines the role of engineering teachers in preparing the next generation of engineers and presents perspectives on active learning methods for engineering education. As such, it contributes to bypassing the compartmentalized way of course organization typical in many HEIs and prepares for more agile engineering education. Covering topics such as game-based teaching methods, Industry 4.0, and management skills, this book is a dynamic resource ideal for engineers, engineering professors, engineering students, general educators, engineering professionals, academicians, and researchers.

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196,80 €
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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781799888178

Medium: Buch

ISBN: 978-1-7998-8817-8

Verlag: Engineering Science
Reference

Erscheinungstermin: 22.11.2021

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2021

Produktform: Kartoniert

Gewicht: 1187 g

Seiten: 330

Format (B x H): 216 x 280 mm

