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Routledge Handbook of Sports Coaching IGI Global

"This is the ideal text for undergraduate students beginning their Engineering studies. It will engage the undergraduate engineering student directly with what it means to be a contemporary engineer in Australia and New Zealand. There is a strong and practical emphasis on developing the range of communication and decision-making skills that are essential for tackling engineering problems. Throughout the text and its accompanying exercises and problems, students are encouraged to reflect on and

thereby improve their learning practices."--provided by publisher.

Engineering Your Future IGI Global

This title surveys the full depth and breadth of contemporary coaching studies, mapping the existing disciplinary territory and opening up important new areas of research.

New Models for Technical and Vocational Education and Training John Wiley & Sons
Practice-Based Education: Perspectives and Strategies. This book draws on the collective vision, research, scholarship and experience of leading academics in the field of practice-based and professional education. It presents multiple perspectives and critical appraisals on this significant trend in higher education and examines strategies for implementing this challenging and inspiring mode of learning, teaching and curriculum development. Eighteen chapters are presented across three sections of the book: Contesting and Contextualising Practice-Based Education Practice-Based Education Pedagogy and Strategies The Future of Practice-Based Education.
Engineering Education for Sustainability IGI Global

Many students across the globe seek further education for future employment opportunities. Vocational schools offer direct training to develop the skills needed for employment. New emphasis has been placed on reskilling the workforce as technology has infiltrated all aspects of business. Teachers must be prepared to teach these new skill requirements to allow students to directly enter the workforce with the necessary competences intact. As the labor market and industry are changing, it is essential to stay current with the best teaching practices within vocational education courses to provide the future workforce with the proper tools and knowledge. The Research Anthology on Vocational Education and Preparing Future Workers discusses the development, opportunities, and challenges of vocational education courses and how to best prepare students for future employment. It presents the best practices in curriculum development for vocational education courses and analyzes student outcomes. Covering topics such as industry-academia collaboration, student satisfaction, and competency-based education, this major reference work is an essential resource for academic administration, pre-service teachers, educators of vocational education, libraries, employers, government officials, researchers, and academicians.

Public Health Genomics Springer Nature
Bridging the gap between theory and practice, *ENGINEERING ETHICS*, Fifth Edition, will help you quickly understand the importance of your conduct as a professional and how your actions can affect the health, safety, and welfare of the public. *ENGINEERING ETHICS*, Fifth Edition, provides dozens of diverse engineering cases and a proven and structured method for analyzing them; practical application of the Engineering Code of Ethics; focus on critical moral reasoning as well as effective organizational communication; and in-depth treatment of issues such as sustainability, acceptable risk, whistle-blowing, and globalized standards for engineering. Additionally, a new companion website offers study questions, self-tests, and additional case studies. Available with InfoTrac Student Collections

<http://gocengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineering North Star Editions, Inc.

PBL in Engineering Education: International Perspectives on Curriculum Change presents diverse views on the implementation of PBL from across the globe. The purpose is to exemplify curriculum changes in engineering education. Drivers for change, implementation descriptions, challenges and future perspectives are addressed. Cases of PBL models are presented from Singapore, Malaysia, Tunisia, Portugal, Spain and the USA. These cases are stories of thriving success that can be an inspiration for those who aim to implement PBL and change their engineering education practices. In the examples presented, the change processes imply a transformation of vision and values of what learning should be, triggering a transition from traditional learning to PBL. In this sense, PBL is also a learning philosophy and different drivers, facing diverse challenges and involving different actors, trigger its implementation. This book gathers experiences, practices and models, through which is given a grasp of the complexity, multidimensional, systemic and dynamic nature of change processes. Anette Kolmos, director of Aalborg PBL Centre, leads off the book by presenting different strategies to curriculum change, addressing three main strategies of curriculum change, allowing the identification of three types of institutions depending on the type of strategy used. Following chapters describe each of the PBL cases based upon how they implement the seven components of PBL: (i) objectives and knowledge; (ii) types of problems, projects and lectures; (iii) progression, size and duration; (iv) students' learning; (v) academic staff and facilitation; (vi) space and organization; and (vii) assessment and evolution. The book concludes with a chapter summarizing all chapters and providing an holistic perspective of change processes.

Practice-Based Education John Wiley & Sons

This book is aimed at engineering academics worldwide, who are attempting

to bring social justice into their work and practice, or who would like to but don't know where to start. This is the first book dedicated specifically to University professionals on Engineering and Social Justice, an emerging and exciting area of research and practice. An international team of multidisciplinary authors share their insights and invite and inspire us to reformulate the way we work. Each chapter is based on research and yet presents the outcomes of scholarly studies in a user oriented style. We look at all three areas of an engineering academic's professional role: research, teaching and community engagement. Some of our team have created classes which help students think through their role as engineering practitioners in society. Others are focusing their research on outcomes that are socially just and for client groups who are marginalized and powerless. Yet others are consciously engaging local community groups and exploring ways in which the University might 'serve' communities at home and globally from a post-development perspective. We are additionally concerned with the student cohort and who has access to engineering studies. We take a broad social and ecological justice perspective to critique existing and explore alternative practices. This book is a handbook for any engineering academic, who wishes to develop engineering graduates as well as technologies and practices that are non-oppressive, equitable and engaged. It is also an essential reader for anyone studying in this interdisciplinary juncture of social science and engineering. Scholars using a critical theoretical lens on engineering practice and education, from Science and Technology Studies, History and Philosophy

of Engineering, Engineering and Science Education will find this text invaluable.

The Quiet You Carry Springer Nature

Engineering Asset Management discusses state-of-the-art trends and developments in the emerging field of engineering asset management as presented at the Fourth World Congress on Engineering Asset Management (WCEAM). It is an excellent reference for practitioners, researchers and students in the multidisciplinary field of asset management, covering such topics as asset condition monitoring and intelligent maintenance; asset data warehousing, data mining and fusion; asset performance and level-of-service models; design and life-cycle integrity of physical assets; deterioration and preservation models for assets; education and training in asset management; engineering standards in asset management; fault diagnosis and prognostics; financial analysis methods for physical assets; human dimensions in integrated asset management; information quality management; information systems and knowledge management; intelligent sensors and devices; maintenance strategies in asset management; optimisation decisions in asset management; risk management in asset management; strategic asset management; and sustainability in asset management.

Engineering Your Future John Wiley & Sons

When seventeen-year-old Victoria Parker is suddenly placed into foster care, she struggles to find words for the abuse that upended her life. Determined to keep her head down, stay out of trouble, and graduate on time, Victoria soon realizes that no matter how hard she tries to move forward, the trauma in her past won't leave her alone.

Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education CRC Press

History of early European exploration and settlement of Rockhampton and district.

Intersections Springer Science & Business Media

Engineering Your Future: An Australasian

Guide, 4th Edition John Wiley & Sons
Interdisciplinary Mathematics Education
Routledge

Provides specific teaching strategies for each chapter and classroom-tested oral, written, drawing, and dramatic activities that help students make meaning out of the novel and engage them in its thematic and affective elements.

Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications IGI Global

The latest research innovations and enhanced technologies have altered the discipline of materials science and engineering. As a direct result of these developments, new trends in Materials Science and Engineering (MSE) pedagogy have emerged that require attention. The Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education brings together innovative and current advances in the curriculum design and course content of MSE education programs. Focusing on the application of instructional strategies, pedagogical frameworks, and career preparation techniques, this book is an essential reference source for academicians, engineering practitioners, researchers, and industry professionals interested in emerging and future trends in MSE training and education.

The Wiley Handbook of Problem-Based Learning Engineering Your Future: An Australasian Guide, 4th Edition

Practical drug development approaches presented by leading experts Designed to support the development of new, effective therapeutics, Topical and Transdermal Drug Delivery: Principles and Practice explains the principles underlying the field and then demonstrates how these principles are put into practice in the design

and development of new drug products.

Drawing together and reviewing the latest research findings, the book focuses on practical, tested, and proven approaches that are backed by industry case studies and the authors' firsthand experience. Moreover, the book emphasizes the mechanistic information that is essential for successful drug product development. Topical and Transdermal Drug Delivery: Principles and Practice is divided into two parts: Part One, Current Science, Skin Permeation, and Enhancement Approaches, offers readers a fundamental understanding of the underlying science in the field. It describes the principles and techniques needed to successfully perform experimental approaches, covering such issues as skin permeation, enhancement, and assessment. Part Two, Topical and Transdermal Product Development, guides readers through the complete product development process from concept to approval, offering practical tips and cautions from experts in the field. This part also discusses regulations that are specific to the development of dermal drug products. The final chapter explores current and future trends, forecasting new development techniques and therapeutics. Throughout the book, the authors clearly set forth the basic science and experimental procedures, making it possible for researchers to design their own experimental approaches and accurately interpret their results. With contributions from experienced drug researchers, this text is highly recommended for all researchers involved in topical and transdermal product development who need to know both the state of the science and the standards of practice.

Engineering Your Future John Wiley & Sons

Specifically designed as an introduction to the exciting world of engineering, **ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING** encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineering Ethics: Concepts and Cases
Springer Science & Business Media

This report reviews engineering's importance to human, economic, social and cultural development and in addressing the UN Millennium Development Goals. Engineering tends to be viewed as a national issue, but engineering knowledge, companies, conferences and journals, all demonstrate that it is as international as science. The report reviews the role of engineering in development, and covers issues including poverty reduction, sustainable development, climate change mitigation and adaptation. It presents the

various fields of engineering around the world and is intended to identify issues and challenges facing engineering, promote better understanding of engineering and its role, and highlight ways of making engineering more attractive to young people, especially women.--Publisher's description.

Engineering Asset Management UNESCO

This title looks at how people, as opposed to technology and computers within plants, are arguably the most unreliable factor, leading to dangerous situations.

Long Acting Animal Health Drug Products

River Publishers Management Sc

This book considers all aspects of ureteroscopy and the dominant role that it plays in the treatment of many urologic disorders. Most diseases of the ureter and renal collecting system must be considered for ureteroscopic diagnosis and/or treatment. This book explores advancements of instrumentation such as endoscopes, ancillary devices, endoscopic lithotripters, and ablative devices. It also illuminates the most current diagnostic and therapeutic techniques, including pre- and postoperative treatment, metabolic management, and the role of chemotherapy in the upper tract. Further, this book examines less common indications for ureteroscopy such as strictures, foreign bodies, and diagnostic dilemmas. Organized by situation or diagnosis, this book considers all treatment options and notes the role of ureteroscopy before exploring technical approaches, goals of treatment, detailed techniques, staged treatments, potential complications, and postoperative management. *Advanced Ureteroscopy: A Practitioner's Guide to Treating Difficult Problems* is the definitive source for the endoscopic approach to common and rare upper tract diseases, serving urologic endoscopists, practicing urologists, residents, and fellows.

Mechanics of Materials IChemE

This open access book is the first major publication on the topic of "Interdisciplinary

Mathematics Education” and arose from the work of the first International Topic Study Group of the same name at the ICME-13 conference in Hamburg in 2016. It offers extensive theoretical insights, empirical research, and practitioner accounts of interdisciplinary mathematics work in STEM and beyond (e.g. in music and the arts). Scholars and practitioners from four continents contributed to this comprehensive book, and present studies on: the conceptualizations of interdisciplinarity; implementation cases at schools and tertiary institutions; teacher education; and implications for policy and practice. Each chapter, and the book itself, closes with an assessment of the most significant aspects that those involved in policy and practice, as well as future researchers, should take into account.

Uses of Immobilized Biological Compounds

Routledge

Engineering Your Future: An Australasian Guide, Third edition, is the ideal textbook for undergraduate students beginning their engineering studies. Building on the success of the popular first and second editions, this new edition continues the strong and practical emphasis on skills that are essential for engineering problem solving and design. Numerous topical and locally focused examples of projects across the broad range of engineering disciplines help to demonstrate vividly the role and responsibilities of a professional engineer. Themes of sustainability, ethical practice and effective communication are a constant throughout the text. This edition extensively covers the concepts of sustainability, design, engineering economics and professional responsibility. In addition, its many exercises and project activities will encourage students to put key engineering principles and skills into practice.