

## Chapter Iii Universiti Teknologi Malaysia

Cases on Responsive and Responsible Learning in Higher Education  
 Emerging Developments and Applications of Low Temperature Plasma  
 Developing Safer Online Environments for Children: Tools and Policies for Combatting Cyber Aggression  
 Transportation Systems and Engineering: Concepts, Methodologies, Tools, and Applications  
 Insights on Resiliency and Urban Development  
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 Software Engineering and Computer Systems, Part II  
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 Research Anthology on Developing Critical Thinking Skills in Students  
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 Handbook of Research on Recent Developments in Electrical and Mechanical Engineering  
 Human Performance Technology: Concepts, Methodologies, Tools, and Applications  
 Handbook of Research on Nanoelectronic Sensor Modeling and Applications  
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### NOVAK PARSONS

*Cases on Responsive and Responsible Learning in Higher Education* Springer

The Handbook of Research on Designing Sustainable Strategies to Develop Entrepreneurial Intention is a comprehensive book that addresses the issue of entrepreneurial intention and its development. The book highlights the significant role of entrepreneurship in the growth and development of economies and presents a global understanding of entrepreneurial intention. It discusses how the “seeds” of entrepreneurial intention are sown, and how a supportive entrepreneurial ecosystem can develop successful entrepreneurs. The book provides insights into the challenges and apprehensions faced by aspiring entrepreneurs. This book develops models and frameworks to identify strategies, best practices, case studies, and successful examples from multiple regions to develop entrepreneurial intention among students of higher education. It bridges the gap between policies related to the entrepreneurial ecosystem and its implementation

to nurture entrepreneurial intention among aspiring entrepreneurs. This book is an essential resource for researchers, industry practitioners, academicians, higher education institutions, students, policy makers, corporate executives, banks, venture capitalists, angel investors, and entrepreneurs trying to re-enter. It is also highly useful for undergraduate, graduate, and research level students pursuing entrepreneurship education and aspiring to become entrepreneurs. Overall, the book provides an in-depth understanding of entrepreneurial intention and how it can be nurtured to create successful entrepreneurs, making it an important reference for anyone interested in entrepreneurship and economic growth.

**Emerging Developments and Applications of Low Temperature Plasma** Springer

As teaching strategies continue to change and evolve, and technology use in classrooms continues to increase, it is imperative that their impact on student learning is monitored and assessed. New practices are being developed to enhance students’ participation, especially in their own assessment, be it through peer-review, reflective assessment, the introduction of new technologies, or other novel solutions. Educators must remain up-to-date on the latest methods of

evaluation and performance measurement techniques to ensure that their students excel.

Learning and Performance Assessment: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines emerging perspectives on the theoretical and practical aspects of learning and performance-based assessment techniques and applications within educational settings. Highlighting a range of topics such as learning outcomes, assessment design, and peer assessment, this multi-volume book is ideally designed for educators, administrative officials, principals, deans, instructional designers, school boards, academicians, researchers, and education students seeking coverage on an educator’s role in evaluation design and analyses of evaluation methods and outcomes.

**Developing Safer Online Environments for Children: Tools and Policies for Combatting Cyber Aggression** IGI Global

Traditional classroom learning environments are quickly becoming a thing of the past as research continues to support the integration of learning outside of a structured school environment. Blended learning, in particular, offers the best of both worlds, combining classroom learning with

mobile and web-based learning environments. *Blended Learning: Concepts, Methodologies, Tools, and Applications* explores emerging trends, case studies, and digital tools for hybrid learning in modern educational settings. Focusing on the latest technological innovations as well as effective pedagogical practice, this critical multi-volume set is a comprehensive resource for instructional designers, educators, administrators, and graduate-level students in the field of education.

**Transportation Systems and Engineering: Concepts, Methodologies, Tools, and Applications** IGI Global

"This book brings together advanced research on diverse topics in wireless communications and networking, including the latest developments in broadband technologies, mobile communications, wireless sensor networks, network security, and cognitive radio networks"--

**Insights on Resiliency and Urban Development** IGI Global

Nanoelectronics are a diverse set of materials and devices that are so small that quantum mechanics need to be applied to their function. The possibilities these devices present outweigh the difficulties associated with their development, as biosensors and similar devices have the potential to vastly improve our technological reach. The *Handbook of Research on Nanoelectronic Sensor Modeling and Applications* begins with an introduction of the fundamental concepts of nanoelectronic sensors, then proceeds to outline in great detail the concepts of nanoscale device modeling and nanoquantum fundamentals. Recent advances in the field such as graphene technology are discussed at length in this comprehensive handbook, ideal for electrical engineers, advanced engineering students, researchers, and academics.

**Blended Learning: Concepts, Methodologies, Tools, and Applications** IGI Global

Adoption of new technologies in logistics and supply chain processes is crucial for the continued effectiveness of supply chains. Technology has the potential to address the issue of logistics and supply chain visibility throughout the supply chain, from raw materials through manufacturers and end users. When properly implemented, improved forecasting of inventory levels, employee productivity, adequate accountability, and higher warehouse savings are all possible. Additionally, businesses must upskill their supply chain workers and recruit and manage digital talent in cross-functional teams. The *Handbook of Research on Promoting Logistics and Supply Chain Resilience Through Digital Transformation* discusses the ways in which global logistics and supply chains have been severely disrupted by digital technology transformation. The book helps policymakers in designing a resilient framework that can absorb external shocks like the COVID-19 pandemic and also enhances the performance and operational capability of the logistics and supply chain network. Covering topics such as oil and gas maintenance support, stakeholder management, and business optimization strategy, this major reference work is essential for logistics professionals, business leaders and executives, IT managers, government officials, manufacturers, students and faculty of higher education, librarians, researchers, and academicians.

**Software Engineering and Computer Systems, Part II** IGI Global

Design and development research, which has considerable implications for instructional design, focuses on designing and exploring products, artifacts and models, as well as programs, activity, and curricula. *Instructional Technology Research, Design and Development: Lessons from the Field* is a practical text on design and development research in the field of instructional technology. This book gives readers an overview of design and development research and how it is conducted in different contexts and for various purposes. Further, this reference source provides readers with practical knowledge on design and development research gained through investigation of lessons learned in the field.

**Wireless Sensor Networks and Energy Efficiency: Protocols, Routing and Management** IGI Global

Violent behavior is an unavoidable aspect of human nature, and as such, it has become deeply integrated into modern society. Examining violence through a critical, academic, and social perspective can lead to a better understanding of its foundations and implications. *Social Issues Surrounding Harassment and Assault: Breakthroughs in Research and Practice* explores the social and cultural influences of harassment and assault on human life and activity. Highlighting a range of pertinent topics such as child abuse and neglect, support services, and sexual harassment, this book is an ideal reference source for clinicians, sociologists, practitioners, researchers, and graduate-level students interested in all aspects of social issues related to harassment and assault.

**Informatics Engineering and Information Science, Part III** IGI Global

Water covers more than 70% of the Earth's surface, making maritime influences an important consideration in evaluating modern global economic systems. Therefore, the efficient design,

operation, and management of maritime systems are important for sustainable marine technology development and green innovation. *Marine Technology and Sustainable Development: Green Innovations* examines theoretical frameworks and empirical research in the maritime industry, evaluating new technologies, methodologies, and practices against a backdrop of sustainability. This critical reference encourages the discussion and exploration of diverse opinions on the benefits and challenges of new marine technologies essential for marine and maritime professionals, researchers, and scholars hoping to improve their understanding of environmental considerations in preserving the world's oceanic resources.

**Research Anthology on Developing Critical Thinking Skills in Students** Springer

It is necessary to understand the extent of pollution in the environment in terms of the air, water, and soil in order for both humans and animals to live healthier lives. Poor waste treatment or pollution monitoring can lead to massive environmental issues, such as diminishing valuable resources, and cause a significant negative impact on society. Solutions, such as reuse of waste and sustainable waste management, must be explored to prevent these adverse effects. The *Handbook of Research on Resource Management for Pollution and Waste Treatment* is a collection of innovative research that examines waste and pollution treatment methods that can be adopted at local and international levels and examines appropriate resource management strategies for environmentally related issues. Featuring coverage on a wide range of topics such as soil washing, bioremediation, and runoff handling, this book is ideally designed for environmentalists, engineers, waste management professionals, natural resource regulators, environmental policymakers, scientists, academicians, researchers, and students seeking current research on viable resource management methods for the regeneration of their immediate environment.

**Student-Driven Learning Strategies for the 21st Century Classroom** IGI Global

Over the past decade, increasing competition has created immense opportunities for businesses globally. As such, it is important to research new methods and systems for creating optimal business cultures. *Cases on Quality Initiatives for Organizational Longevity* is a scholarly publication that examines cases on practices in organizations and how they have facilitated transformation over the years. Featuring coverage on a broad range of topics such as customer loyalty, benchmarking, and employee training, this book is geared toward business owners, managers, entrepreneurs, professionals, researchers, and students seeking current and relevant research on contemporary cases in the field of business quality management.

**Handbook of Research on Emerging Advancements and Technologies in Software Engineering** IGI Global

Technological advancements continue to enhance the field of engineering and have led to progress in branches that include electrical and mechanical engineering. These technologies have allowed for more sophisticated circuits and components while also advancing renewable energy initiatives. With increased growth in these fields, there is a need for a collection of research that details the variety of works being studied in our globalized world. The *Handbook of Research on Recent Developments in Electrical and Mechanical Engineering* is a pivotal reference source that discusses the latest advancements in these engineering fields. Featuring research on topics such as materials manufacturing, microwave photons, and wireless power transfer, this book is ideally designed for graduate students, researchers, engineers, manufacturing managers, and academicians seeking coverage on the works and experiences achieved in electrical and mechanical engineering.

**Organizational Culture and Behavior: Concepts, Methodologies, Tools, and Applications** IGI Global

Advanced approaches to software engineering and design are capable of solving complex computational problems and achieving standards of performance that were unheard of only decades ago. *Handbook of Research on Emerging Advancements and Technologies in Software Engineering* presents a comprehensive investigation of the most recent discoveries in software engineering research and practice, with studies in software design, development, implementation, testing, analysis, and evolution. Software designers, architects, and technologists, as well as students and educators, will find this book to be a vital and in-depth examination of the latest notable developments within the software engineering community.

**Software Design and Development: Concepts, Methodologies, Tools, and Applications** Informing Science

From driverless cars to vehicular networks, recent technological advances are being employed to increase road safety and improve driver satisfaction. As with any newly developed technology, researchers must take care to address all concerns, limitations, and dangers before widespread

public adoption. *Transportation Systems and Engineering: Concepts, Methodologies, Tools, and Applications* addresses current trends in transportation technologies, such as smart cars, green technologies, and infrastructure development. This multivolume book is a critical reference source for engineers, computer scientists, transportation authorities, students, and practitioners in the field of transportation systems management.

**Ontology-Based Applications for Enterprise Systems and Knowledge Management** IGI Global

This Three-Volume-Set constitutes the refereed proceedings of the Second International Conference on Software Engineering and Computer Systems, ICSECS 2011, held in Kuantan, Malaysia, in June 2011. The 190 revised full papers presented together with invited papers in the three volumes were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on software engineering; network; bioinformatics and e-health; biometrics technologies; Web engineering; neural network; parallel and distributed e-learning; ontology; image processing; information and data management; engineering; software security; graphics and multimedia; databases; algorithms; signal processing; software design/testing; e-technology; ad hoc networks; social networks; software process modeling; miscellaneous topics in software engineering and computer systems.

**Learning and Performance Assessment: Concepts, Methodologies, Tools, and Applications** Springer Nature

"This book provides an opportunity for readers to clearly understand the notion of ontology engineering and the practical aspects of this approach in the domains of two interest areas: Knowledge Management Systems and Enterprise Systems"--

**Instructional Technology Research, Design and Development: Lessons from the Field** IGI Global

The questionable practices and policies of many businesses are coming under scrutiny by consumers and the media. As such, it is important to research new methods and systems for creating optimal business cultures. *Organizational Culture and Behavior: Concepts, Methodologies, Tools, and Applications* is a comprehensive resource on the latest advances and developments for creating a system of shared values and beliefs in business environments. Featuring extensive coverage across a range of relevant perspectives and topics, such as organizational climate, collaboration orientation, and aggressiveness orientation, this book is ideally designed for business owners, managers, entrepreneurs, professionals, researchers, and students actively involved in the modern business realm.

**3D Printing Technologies** IGI Global

In the current educational environment, there has been a shift towards online learning as a replacement for the traditional in-person classroom experience. With this new environment comes new technologies, benefits, and challenges for providing courses to students through an entirely digital environment. With this shift comes the necessary research on how to utilize these online courses and how to develop effective online educational materials that fit student needs and encourage student learning, motivation, and success. The optimization of these online tools requires a deeper look into curriculum, instructional design, teaching techniques, and new models for student assessment and evaluation. Information on how to create valuable online course content, engaging lesson plans for the digital space, and meaningful student activities online are only a few of many current topics of interest for promoting student achievement through online learning. The *Research Anthology on Developing Effective Online Learning Courses* provides multiple perspectives on how to develop engaging and effective online learning courses in the wake of the rapid digitalization of education. This book includes topics focused on online learners, online course content, effective online instruction strategies, and instructional design for the online environment. This reference work is ideal for curriculum developers, instructional designers, IT consultants, deans, chairs, teachers, administrators, academicians, researchers, and students interested in the latest research on how to create online learning courses that promote student success.

**Handbook of Research on Progressive Trends in Wireless Communications and Networking** Springer

Business practices are rapidly changing due to technological advances in the workplace. Organizations are challenged to implement new programs for more efficient business while maintaining their standards of excellence and achievement. *Human Performance Technology: Concepts, Methodologies, Tools, and Applications* is a vital reference source for the latest research findings on real-world applications of digital tools for human performance enhancement across a variety of settings. This publication also examines the utilization of problem-based instructional

techniques for challenges and solutions encountered by industry professionals. Highlighting a range of topics such as performance support systems, workplace curricula, and instructional technology, this multi-volume book is ideally designed for business executives and managers, business professionals, human resources managers, academicians, and researchers actively involved in the business industry.

*Cases on Quality Initiatives for Organizational Longevity* IGI Global

Responsive learning and responsible learning have not been considered and utilized appropriately in the past, especially in light of the post-pandemic higher education landscape. A discussion and consideration of the different elements that make up responsive and responsible learning such as agency, agility, mindfulness, connectedness, resourcefulness, active and seamless learning, and regulation of learning are required to advance the field of higher education. *Cases on Responsive and Responsible Learning in Higher Education* encompasses cases on responsive and responsible

learning in higher education and focuses on how the concepts are translated into practice by instructors, learning facilitators, and higher education managers. The book also deals with various practicalities and strategies and adopts existing models and frameworks for 21st century learning. Covering key topics such as learner agency, mindfulness, and personalized learning, this reference work is ideal for administrators, policymakers, researchers, academicians, practitioners, scholars, instructors, and students.