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Machine Learning Engineering in Action *Simon and Schuster* Field-tested tips, tricks, and design patterns for building Machine Learning projects that are deployable, maintainable, and secure from concept to production. Machine Learning Engineering in Action lays out an approach to building deployable, maintainable production machine learning systems. You'll adopt software development standards that deliver better code management, and make it easier to test, scale, and even reuse your machine learning code! You'll learn how to plan and scope your project, manage cross-team logistics that avoid fatal communication failures, and design your code's architecture for improved resilience. You'll even discover when not to use machine learning—and the alternative approaches that might be cheaper and more effective. When you're done working through this toolbox guide, you'll be able to reliably deliver cost-effective solutions for organizations big and small alike. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. **Software Engineering: Effective Teaching and Learning Approaches and Practices Effective Teaching and Learning Approaches and Practices** *IGI Global* Over the past decade, software engineering has developed into a highly respected field. Though computing and software engineering education continues to emerge as a prominent interest area of study, few books specifically focus on software engineering education itself. Software Engineering: Effective Teaching and Learning Approaches and Practices presents the latest developments in software engineering education, drawing contributions from over 20 software engineering educators from around the globe. Encompassing areas such as student assessment and learning, innovative teaching methods, and educational technology, this much-needed book greatly enhances libraries with its unique research content. **Leveraging Applications of Formal Methods, Verification and Validation. Distributed Systems 8th International Symposium, ISoLA 2018, Limassol, Cyprus, November 5-9, 2018, Proceedings, Part III** *Springer* The four-volume set LNCS 11244, 11245, 11246, and 11247 constitutes the refereed proceedings of the 8th International Symposium on Leveraging Applications of Formal Methods, Verification and Validation, ISoLA 2018, held in Limassol, Cyprus, in October/November 2018. The papers presented were carefully reviewed and selected for inclusion in the proceedings. Each volume focusses on an individual topic with topical section headings within the volume: Part I, Modeling: Towards a unified view of modeling and programming; X-by-construction, STRESS 2018. Part II, Verification: A broader view on verification: from static to runtime and back; evaluating tools for software verification; statistical model checking; RERS 2018; doctoral symposium. Part III, Distributed Systems: rigorous engineering of collective adaptive systems; verification and validation of distributed systems; and cyber-physical systems engineering. Part IV, Industrial Practice: runtime verification from the theory to the industry practice; formal methods in industrial practice - bridging the gap; reliable smart contracts: state-of-the-art, applications, challenges and future directions; and industrial day. **E-Learning Technologies and Evidence-Based Assessment Approaches** *IGI Global* "This book aims to provide readers with a variety of contemporary solutions to identified educational problems of practice related to the assessment of student learning in e-learning environments"--Provided by publisher. **Foundations of Education: An EMS Approach** *Jones & Bartlett Learning* The evolving field of emergency medical services (EMS) requires professional educators who are knowledgeable about teaching and learning strategies, classroom management, assessment and evaluation, technology in learning, legal implications in education, program infrastructure design, and administering programs of excellence to meet state and national accreditation guidelines. Foundations of Education: An EMS Approach, Third Edition, provides EMS educators with the tools, ideas, and information necessary to succeed in each of these areas. The content reflects how current educational knowledge and theory uniquely apply to EMS students, educators, and programs. This textbook is used in the NAEMSE Instructor Courses, and is an excellent reference for all EMS educators, as well as educators in allied health professions. Evidence-Based Content In addition to foundational topics such as teaching philosophy and classroom management, the text covers brain-based learning, accreditation and program evaluation, emerging technologies, and assessment strategies. It guides educators to write objectives, prepare lesson plans, and deliver education in engaging ways to maximize student learning. Grounded in this information, EMS educators can promote effective education regardless of the type of course or setting. Highlights -Covers current educational theory and teaching methodologies specific to EMS -Meets and exceeds the latest DOT National Guidelines for Educating EMS Instructors -Offer practical advice and scenarios in the form of Teaching Tips and Case in Points **Intelligence Science III 4th IFIP TC 12 International Conference, ICIS 2020, Durgapur, India, February 24–27, 2021, Revised Selected Papers** *Springer Nature* This book constitutes the refereed post-conference proceedings of the 4th International Conference on Intelligence Science, ICIS 2020, held in Durgapur, India, in February 2021 (originally November 2020). The 23 full papers and 4 short papers presented were carefully reviewed and selected from 42 submissions. One extended abstract is also included. They deal with key issues in brain cognition; uncertain theory; machine learning; data intelligence; language cognition; vision cognition; perceptual intelligence; intelligent robot; and medical artificial intelligence. **APTET-Child Development & Pedagogy Ebook-PDF Objective Questions From Various Competitive Exams With Answers** *Chandresh Agrawal* SGN.The Ebook APTET-Child Development & Pedagogy Covers Objective Questions From Various Competitive Exams With Answers. **Cultural-Historical Approaches to Studying Learning and Development Societal, Institutional and Personal Perspectives** *Springer* This collection of papers examines key ideas in cultural-historical approaches to children's learning and development and the cultural and institutional conditions in which they occur. The collection is given coherence by a focus on the intellectual contributions made by Professor Mariane Hedegaard to understandings of children's learning through the prism of the interplay of society, institution and person. She has significantly shaped the field through her scholarly consideration of foundational concepts and her creative attention to the fields of activity she studies. The book brings together examples of how these concepts have been employed and developed in a study of learning and development. The collection allows the contributing scholars to reveal their reactions to Hedegaard's contributions in discussions of their own work in the field of children's learning and the conditions in which it occurs. **E-Learning Systems, Environments and Approaches Theory and Implementation** *Springer* The volume consists of twenty-five chapters selected from among peer-reviewed papers presented at the CELDA (Cognition and Exploratory Learning in the Digital Age) 2013 Conference held in Fort Worth, Texas, USA, in October 2013 and also from world class scholars in e-learning systems, environments and approaches. The following sub-topics are included: Exploratory Learning Technologies (Part I), e-Learning social web design (Part II), Learner communities through e-Learning implementations (Part III), Collaborative and student-centered e-Learning design (Part IV). E-Learning has been, since its initial stages, a synonym for flexibility. While this dynamic nature has mainly been associated with time and space it is safe to argue that currently it embraces other aspects such as the learners' profile, the scope of subjects that can be taught electronically and the technology it employs. New technologies also widen the range of activities and skills developed in e-Learning. Electronic learning environments have evolved past the exclusive delivery of knowledge. Technology has endowed e-Learning with the possibility of remotely fomenting problem solving skills, critical thinking and team work, by investing in information exchange, collaboration, personalisation and community building. **ICEL 2017 - Proceedings of the 12th International Conference on e-Learning** *Academic Conferences and publishing limited* **Numerical Approaches to Combustion Modeling** *Amer Inst of Aeronautics &* **Proceedings of the International Conference on Transformations in Engineering Education ICTIEE 2014** *Springer* This book comprises the proceedings of the International Conference on Transformations in Engineering Education conducted jointly by BVB College of Engineering & Technology, Hubli, India and Indo US Collaboration for Engineering Education (IUCEE). This event is done in collaboration with International Federation of Engineering Education Societies (IFEES), American Society for Engineering Education (ASEE) and Global Engineering Deans' Council (GEDC). The conference is about showcasing the transformational practices in Engineering Education space. **Health Professional as Educator: Principles of Teaching and Learning Principles of Teaching and Learning** *Jones & Bartlett Learning* Written for health professionals, the Second Edition of Health Professional as Educator: Principles of Teaching and Learning focuses on the daily education of patients, clients, fellow colleagues, and students in both clinical and classroom settings. Written by renowned educators and authors from a wide range of health backgrounds, this comprehensive text not only covers teaching and learning techniques, but reinforces concepts with strategies, learning styles, and teaching plans. The Second Edition focuses on a range of audiences making it an excellent resource for those in all healthcare professions, regardless of level of educational program. Comprehensive in its scope and depth of information, students will learn to effectively educate patients, students, and colleagues throughout the course of their careers. **Bernard Lonergan's Method and a Medical Doctor's Approach to Healthcare** *Wipf and Stock Publishers* Pat Daly, MD, has written a series of articles which uphold Bernard Lonergan's method explored in his famous book Insight as a model that could be followed or applied in practicing medicine or promoting healthcare. Daly calls his effort a GEM Model for medicine. Daly, however, has not explored in-depth Lonergan's second major work, Method in Theology, which develops an eight-step method that complements Insight. This book focuses on these eight steps, or Functional Specialties so as to better promote Lonergan's views on "Healing and Creating in History." **Teaching Innovation in University Education: Case Studies and Main Practices Case Studies and Main Practices** *IGI Global* In the last decade, the development of new technologies has made innovation a fundamental pillar of education. Teaching innovation includes the evolution of both teaching and learning models to drive improvements in educational methodologies. Teaching innovation is a pioneer in the understanding and comprehension of the different teaching methodologies and models developed in the academic area. Teaching innovation is a process that seeks validation in the academic and teaching communities at universities in order to promote the improvement and its practices and uses in the future characterized by digital development and data-based methods. Teaching Innovation in University Education: Case Studies and Main Practices features the major practices and case studies of teaching innovation developed in recent years at universities. It is a source on study cases focused on teaching innovation methodologies as well as on the identification of new technologies that will help the development of initiatives and practices focused on teaching innovation at higher education institutions. Covering topics such as didactic strategics, service learning, and technology-based gamification, this premier reference source is an indispensable resource for pre-service teachers, lecturers, students, faculty, administrators, libraries, entrepreneurs, researchers, and academicians. **Authentic Assessment and Evaluation Approaches and Practices in a Digital Era A Kaleidoscope of Perspectives** *BRILL* This book expertly illustrates the important process of authentic assessment and evaluation in the construction and dissemination of educational knowledge. One of the key strengths of this book is the diversity of contexts in which the various aspects of assessment are evidenced and discussed. **Handbook of Research on Teaching and Learning in K-20 Education** *IGI Global* While the general agreement in education remains that the more senses involved in learning, the better we learn; the question still remains as to the distinction between the education of children and the education of adults. Handbook of Research on Teaching and Learning in K-20 Education provides well-rounded research in providing teaching and learning theories that can be applied to both adults and children while acknowledging the difference between both. This book serves as a comprehensive collection of expertise, research, skill, and experiences which will be useful to educators, scholars, and practitioners in the K-12 education, higher education, and adult education field. **Programming Multi-Agent-Systems 4th International Workshop, ProMAS 2006, Hakodate, Japan, May 9, 2006, Revised and Invited Papers** *Springer* This book constitutes the thoroughly refereed postproceedings of the 4th International Workshop on Programming Multi-Agent Systems, ProMAS 2006, held in Hakodate, Japan, May 2006. Coverage includes uncertainty of agents; lightweight devices for business and e-commerce applications; component-based agents for MAS simulation; creation, execution, mobility and communication of agents; as well as multi-agent platforms and organization. **ECEL2012-The Proceedings of the 11th European Conference on E-Learning University of Groningen, the Netherlands 26-27 October 2012** *Academic Conferences Limited* **Theoretical and Practical Advances in Information Systems Development: Emerging Trends and Approaches Emerging Trends and Approaches** *IGI Global* Information system design and development is of interest and importance to researchers and practitioners, as advances in this discipline impact a number of other related fields and help to guide future research. Theoretical and Practical Advances in Information Systems Development: Emerging Trends and Approaches contains fundamental concepts, emerging theories, and practical applications in database management, systems analysis and design, and software engineering. Contributions present critical findings in information resources management that inform and advance the field. **Statistical**

Methods in Counterterrorism Game Theory, Modeling, Syndromic Surveillance, and Biometric Authentication *Springer Science & Business Media* With the realization that many clues and hints preceded the September 11 terrorist attacks, statisticians became an important part of the global war on terror. This book surveys emerging research at the intersection of national security and statistical sciences. In it, a diverse group of talented researchers address such topics as Syndromic Surveillance; Modeling and Simulation; Biometric Authentication; and Game Theory. The book includes general reviews of quantitative approaches to counterterrorism, for decision makers with policy backgrounds, as well as technical treatments of statistical issues that will appeal to quantitative researchers. **Formal Aspects of Component Software 10th International Symposium, FACS 2013, Nanchang, China, October 27-29, 2013, Revised Selected Papers** *Springer* This book constitutes the revised selected papers of the 10th International Symposium on Formal Aspects of Component Software, FACS 2013, held in Nanchang, China, in October 2013. The 19 full papers and three invited talks presented were carefully reviewed and selected from 51 submissions. The papers are concerned with how formal methods can be used to make component-based development fit for the new architectures of today and the systems that are now pervading the socio-economic worlds. **Strengthening Forensic Science in the United States A Path Forward** *National Academies Press* Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators. **Critical Questions in STEM Education** *Springer Nature* This edited volume offers a crosscutting view of STEM and is comprised of work by scholars in science, technology, engineering, and mathematics education. It offers a view of STEM from the disciplines that comprise it, while adhering to the idea that STEM itself is an interdisciplinary treatment of all the associated disciplines in a meaningful way. This book raises and answers questions regarding the meaning of STEM education and research. This volume is divided into three sections: the first one describes the nature of the component disciplines of STEM. The next section presents work from leaders representing all STEM disciplines and deals with aspects such as K-12 and post-secondary education. The last section draws conclusions regarding the natures of the disciplines, challenges and advantages of STEM education in terms of theoretical and practical implications. The two final chapters compile arguments from the research chapters, describing themes in research results, and making recommendations for best STEM education practice, and examining areas for future research in STEM education. **Total Quality Management Interview Questions and Answers Self-Learning Notes with Textbook Trivia Terms, Definitions & Explanations (Management Quick Study Guide & Self Teaching Notes)** *Bushra Arshad* Total Quality Management Interview Questions and Answers PDF: Self-Learning Notes with Textbook Trivia Terms, Definitions & Explanations (Management Quick Study Guide & Self Teaching Notes) covers revision notes from class notes & textbooks. Total Quality Management Interview Questions Book PDF covers chapters' short notes with concepts, definitions and explanations for BBA, MBA exams. Total Quality Management Self Learning Notes PDF provides a general course review for subjective exam, job's interview, and test preparation. Total quality management quick study guide PDF download with abbreviations, terminology, and explanations is a revision guide for students' learning. Total Quality Management Trivia Terms PDF book download with free sample covers exam course material terms for distance learning and certification. Total quality management Definitions PDF book download covers subjective course terms for college and high school exam's prep. Total Quality Management Interview Questions and Answers PDF book with glossary terms assists students in tutorials, quizzes, viva and to answer a question in an interview for jobs. Total quality management Self Teaching Notes PDF download covers terminology with definition and explanation for quick learning. Total Quality Management Revision Notes PDF with definitions covered in this quick study guide includes: Acceptance-Sampling Techniques Notes Control Charts for Attributes Notes Control Charts for Variables Notes Designing and Assuring Quality Notes Designing Quality Services Notes Differing Perspectives on Quality Notes DMAIC Process Notes Engineering Process Control and SPC Notes Factorial and Fractional Factorial Experiments for Process Design and Improvement Notes Forever Improving the Quality System Notes Global Supply Chain Quality and International Quality Standards Notes Implementing and Validating the Quality System Notes Implementing Quality Notes Inferences about Process Quality Notes Lot-By-Lot Acceptance Sampling For Attributes Notes Managing Quality Improvement Teams and Projects Notes Managing Supplier Quality in the Supply Chain Notes Methods and Philosophy of Statistical Process Control Notes Modeling Process Quality Notes Process and Measurement System Capability Analysis Notes Process Optimization with Designed Experiments Notes Quality and Innovation in Product and Process Design Notes Quality Improvement in Modern Business Environment Notes Quality Theory Notes Six Sigma Management and Lean Tools Notes Statistical Process monitoring and Control Techniques Notes Statistically Based Quality Improvement for Attributes Notes Statistically Based Quality Improvement for Variables Notes Strategic Quality Planning Notes Tools of Quality Notes Univariate Statistical Process Monitoring and Control Techniques Notes Voice of the Customer Notes Voice of the Market Notes Total quality management interview book PDF covers terms, definitions, and explanations: Acceptable Quality Level, Acceptance Control Chart, Acceptance Sampling, Accuracy, Actively Solicited Customer Feedback, Activity Network Diagram, Adaptive SPC Control Chart, Aesthetics, Affinity Diagram, After Sale Service, Andon, Annuity Relationship, Appraisal Costs, Assurance, Attribute Control Charts, Attribute, Attrition, Auditing Procedure, Auditing Standard, Available Time, Average Outgoing Quality Limit, Average Outgoing Quality, Average Run Length, and Award Audit. Total quality management interview book PDF covers terms, definitions, and explanations: Balanced Scorecards, Baldrige Performance Excellence Program, Base Lining, Batch Size, Bath Tub Shaped Hazard Function, Benchmarking, Best in Class, Black Belt, Box Plot, Breakthrough, and Business Case. Total quality management interview book PDF covers terms, definitions, and explanations: C Chart, Catchball, Cause and Effect Diagram, Central Limit Theorem, Certification Audit, Chain of Customers, Chain Sampling Plans, Champion, Check Sheets, Churn Reduction, Closed-loop Corrective Action, Closeness to Customers, Common Cause Variation, Compensation, Complaint Adjustment Costs, Complaint Resolution Process, Complementary Products, Computer Aided Design (CAD) System, Computer-aided Inspection, Computer-aided Testing, Concept Design, Concurrent Engineering, Conflict Resolution, Conformance, Consultant Audit, Consumer Risk, Contact Personnel, Contingency Theory, Continuous Sampling Plans, Control Charts, Control Plan, Control, Core Competencies, Core Processes, Core Values, Corrective Action, Cost Benefit Analysis, Cost Parameters, CPK, Critical Success Factors, Cross Functional Team, Cross Training, Culture, Cuscore Control Chart, Customer Benefits Package, Customer Coproduction, Customer Defection, Customer Driven Quality, Customer Related Results, Customer Relationship Management, Customer Retention, Customer, Cusum Chart, and Cycle Time. Total quality management interview book PDF covers terms, definitions, and explanations: Defect Concentration Diagram, Defect per Million Opportunities, Defect, Defects per Unit, Demerit System, Design for Disassembly, Design for Maintainability, Design for Manufacture, Design for Reliability, Design for Remanufacture, Design for Six Sigma, Design of Experiment, Designed Experiment, Discrete-Event Simulation, DMADV, DMAIC, Double Sampling Plan, Downgrading, Downtime, Durability, and Electronic Data Interchange (EDI). And many more terms and abbreviations! **AIAA Journal Multi-hazard Approaches to Civil Infrastructure Engineering** *Springer* This collection focuses on the development of novel approaches to address one of the most pressing challenges of civil engineering, namely the mitigation of natural hazards. Numerous engineering books to date have focused on, and illustrate considerable progress toward, mitigation of individual hazards (earthquakes, wind, and so forth.). The current volume addresses concerns related to overall safety, sustainability and resilience of the built environment when subject to multiple hazards: natural disaster events that are concurrent and either correlated (e.g., wind and surge); uncorrelated (e.g., earthquake and flood); cascading (e.g., fire following earthquake); or uncorrelated and occurring at different times (e.g., wind and earthquake). The authors examine a range of specific topics including methodologies for vulnerability assessment of structures, new techniques to reduce the system demands through control systems; instrumentation, monitoring and condition assessment of structures and foundations; new techniques for repairing structures that have suffered damage during past events, or for structures that have been found in need of strengthening; development of new design provisions that consider multiple hazards, as well as questions from law and the humanities relevant to the management of natural and human-made hazards. **Engineering Mathematics Quick Study Guide & Workbook Trivia Questions Bank, Worksheets to Review Homeschool Notes with Answer Key** *Bushra Arshad* Engineering Mathematics Quick Study Guide & Workbook: Trivia Questions Bank, Worksheets to Review Homeschool Notes with Answer Key PDF (Engineering Mathematics Self Teaching Guide about Self-Learning) includes revision notes for problem solving with 350 trivia questions. Engineering Mathematics quick study guide PDF book covers basic concepts and analytical assessment tests. Engineering Mathematics question bank PDF book helps to practice workbook questions from exam prep notes. Engineering Mathematics quick study guide with answers includes self-learning guide with 1400 verbal, quantitative, and analytical past papers quiz questions. Engineering Mathematics trivia questions and answers PDF download, a book to review questions and answers on chapters: Derivation Rules, First Order Ordinary Differential Equations, Introduction to Differential Equations, Laplace Transforms, and Separable Ordinary Differential Equation Modeling worksheets for college and university revision notes. Engineering Mathematics interview questions and answers PDF download with free sample book covers beginner's questions, textbook's study notes to practice worksheets. Mathematics study material includes high school workbook questions to practice worksheets for exam. Engineering Mathematics workbook PDF, a quick study guide with textbook chapters' tests for competitive exam. Engineering Mathematics book PDF covers problem solving exam tests from Mathematics practical and textbook's chapters as: Chapter 1: Derivation Rules Worksheet Chapter 2: First Order Ordinary Differential Equations Worksheet Chapter 3: Introduction to Differential Equations Worksheet Chapter 4: Laplace Transforms Worksheet Chapter 5: Separable Ordinary Differential Equation Modeling Worksheet Solve Derivation Rules study guide PDF with answer key, worksheet 1 trivia questions bank: Transcendental number, trigonometry, logarithm, constant, chain rule, exponential, logarithmic functions, general rules, variable, and rules of derivations. Solve First Order Ordinary Differential Equations study guide PDF with answer key, worksheet 1 trivia questions bank: Homogeneous and inhomogeneous differential equations, concepts of solution, separation of variables, number types, interval types, differential equation types, basic concepts, initial value problem, elementary function, de model, and ordinary differential equation. Solve Introduction to Differential Equations study guide PDF with answer key, worksheet 1 trivia questions bank: DE classifications by types, advance mathematical problems, DE definitions & terminology, mathematical model classifications, DE tools, DE classifications by order, ordinary derivatives notations, and mathematical model. Solve Laplace Transforms study guide PDF with answer key, worksheet 1 trivia questions bank: Solve ODE by Laplace transform, Laplace transform introduction, transforms of derivatives and integrals, Laplace transform of hyperbolic functions, inverse Laplace transform examples, application of s-shifting, initial value problems by Laplace transform, Laplace transform of trigonometric functions, general Laplace transform examples, Laplace transform of exponential function, existence and uniqueness of Laplace transforms, Dirac's delta function, unit step function, s-shifting theorem, general Laplace transforms, and Laplace transform linearity. Solve Separable Ordinary Differential Equation Modeling study guide PDF with answer key, worksheet 1 trivia questions bank: Exponential growth, Boyle Mariette's law, linear accelerators, mixing problem, and radiocarbon dating. **Sustaining University Program Research Sustaining University Program Research, 1970 Opportunities and Approaches for Supplying Molybdenum-99 and Associated Medical Isotopes to Global Markets Proceedings of a Symposium** *National Academies Press* Participants of the July 17-18, 2017, symposium titled Opportunities and Approaches for Supplying Molybdenum-99 and Associated Medical Isotopes to Global Markets examined current trends in molybdenum-99 production, prospects for new global supplies, and technical, economic, regulatory, and other considerations for supplying molybdenum-99 to global markets. This publication summarizes the presentations and discussions from the symposium. **Proceedings of the Second International Conference on the Future of ASEAN (ICoFA) 2017 - Volume 1 Business and Social Sciences** *Springer* This book examines how business, the social sciences, science and technology will impact the future of ASEAN. Following the ASEAN VISION 2020, it analyses the issues faced by ASEAN countries, which are diverse, while also positioning ASEAN as a competitive entity through partnerships. On the 30th anniversary of ASEAN, all ASEAN leaders agreed to the establishment of the ASEAN VISION 2020, which delineates the formation of a peaceful, stable and dynamically developed region while maintaining a community of caring societies in Malaysia, Indonesia, Singapore, Brunei, Vietnam, Thailand, the Philippines, Myanmar, Laos and Cambodia. In keeping with this aspiration, Universiti Teknologi MARA (UitM) Perlis took the initial steps to organise conferences and activities that highlight the role of the ASEAN region. The Second International Conference on the Future of ASEAN (ICoFA) 2017 was organised by the Office of Academic Affairs, Universiti Teknologi MARA Perlis, to promote more comprehensive integration among ASEAN members. This book, divided into two volumes, offers a useful guide for all those engaged in research on business, the social sciences, science and technology. It will also benefit researchers worldwide who want to gain more knowledge about ASEAN countries. **Bridge Engineering Handbook, Second Edition Construction and Maintenance** *CRC Press* Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of the Bridge Engineering Handbook. This extensive collection highlights bridge engineering specimens from around the world, contains detailed information on bridge engineering, and thoroughly explains the concepts and practical applications surrounding the subject. Published in five books: Fundamentals, Superstructure Design, Substructure Design, Seismic Design, and Construction and Maintenance, this new edition provides numerous worked-out examples that give readers step-by-step design procedures, includes contributions by leading experts from around the world in their respective areas of bridge engineering, contains 26 completely new chapters, and updates most other chapters. It offers design concepts,

specifications, and practice, as well as the various types of bridges. The text includes over 2,500 tables, charts, illustrations, and photos. The book covers new, innovative and traditional methods and practices; explores rehabilitation, retrofit, and maintenance; and examines seismic design and building materials. The fifth book, Construction and Maintenance contains 19 chapters, and covers the practical issues of bridge structures. What's New in the Second Edition: Includes nine new chapters: Steel Bridge Fabrication, Cable-Supported Bridge Construction, Accelerated Bridge Construction, Bridge Management Using Pontis and Improved Concepts, Bridge Maintenance, Bridge Health Monitoring, Nondestructive Evaluation Methods for Bridge Elements, Life-Cycle Performance Analysis and Optimization, and Bridge Construction Methods Rewrites the Bridge Construction Inspection chapter and retitles it as: Bridge Construction Supervision and Inspection Expands and rewrites the Maintenance Inspection and Rating chapter into three chapters: Bridge Inspection, Steel Bridge Evaluation and Rating, and Concrete Bridge Evaluation and Rating; and the Strengthening and Rehabilitation chapter into two chapters: Rehabilitation and Strengthening of Highway Bridge Superstructures, and Rehabilitation and Strengthening of Orthotropic Steel Bridge Decks This text is an ideal reference for practicing bridge engineers and consultants (design, construction, maintenance), and can also be used as a reference for students in bridge engineering courses. **Approaches that Foster a Pro-Regenerative Environment** *Frontiers Media SA* **GIEE 2011: Gender and Interdisciplinary Education for Engineers Formation Interdisciplinaire des Ingénieurs et Problème du Genre** *Springer Science & Business Media* Attracting more young people, particularly women, in Engineering and Technology (ET) is a major concern in Europe today. Their participation in engineering occupations appears to be a key-issue for European economic and technical development, as well as a central achievement towards gender equality and social justice. Increasing young people's interest in the sciences and mathematics and underlining the importance of Engineering and Technology developments in shaping our collective future is an ongoing project in the education sector. This book presents various analyses and ideas for possible solutions. Aujourd'hui, attirer plus de jeunes et en particulier des jeunes femmes dans les formations d'ingénieurs est un souci majeur en Europe. C'est une clé pour aller vers l'égalité des sexes et favoriser le développement économique, scientifique et technologique de l'Europe. Accroitre l'intérêt des jeunes pour les sciences et la technologie est essentiel pour notre futur collectif et constitue un défi majeur pour l'éducation. Ce livre présente des analyses et des idées pour de possibles solutions. **Computer-Assisted Language Learning: Concepts, Methodologies, Tools, and Applications Concepts, Methodologies, Tools, and Applications** *IGI Global* In a diverse society, the ability to cross communication barriers is critical to the success of any individual personally, professionally, and academically. With the constant acceleration of course programs and technology, educators are continually being challenged to develop and implement creative methods for engaging English-speaking and non-English-speaking learners. Computer-Assisted Language Learning: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines the relationship between language education and technology and the potential for curriculum enhancements through the use of mobile technologies, flipped instruction, and language-learning software. This multi-volume book is geared toward educators, researchers, academics, linguists, and upper-level students seeking relevant research on the improvement of language education through the use of technology. **Internet of Things Applications - From Research and Innovation to Market Deployment** *CRC Press* The book aims to provide a broad overview of various topics of Internet of Things from the research, innovation and development priorities to enabling technologies, nanoelectronics, cyber physical systems, architecture, interoperability and industrial applications. It is intended to be a standalone book in a series that covers the Internet of Things activities of the IERC – Internet of Things European Research Cluster from technology to international cooperation and the global "state of play".The book builds on the ideas put forward by the European research Cluster on the Internet of Things Strategic Research Agenda and presents global views and state of the art results on the challenges facing the research, development and deployment of IoT at the global level. Internet of Things is creating a revolutionary new paradigm, with opportunities in every industry from Health Care, Pharmaceuticals, Food and Beverage, Agriculture, Computer, Electronics Telecommunications, Automotive, Aeronautics, Transportation Energy and Retail to apply the massive potential of the IoT to achieving real-world solutions. The beneficiaries will include as well semiconductor companies, device and product companies, infrastructure software companies, application software companies, consulting companies, telecommunication and cloud service providers. IoT will create new revenues annually for these stakeholders, and potentially create substantial market share shakeups due to increased technology competition. The IoT will fuel technology innovation by creating the means for machines to communicate many different types of information with one another while contributing in the increased value of information created by the number of interconnections among things and the transformation of the processed information into knowledge shared into the Internet of Everything. The success of IoT depends strongly on enabling technology development, market acceptance and standardization, which provides interoperability, compatibility, reliability, and effective operations on a global scale. The connected devices are part of ecosystems connecting people, processes, data, and things which are communicating in the cloud using the increased storage and computing power and pushing for standardization of communication and metadata. In this context security, privacy, safety, trust have to be address by the product manufacturers through the life cycle of their products from design to the support processes. The IoT developments address the whole IoT spectrum - from devices at the edge to cloud and datacentres on the backend and everything in between, through ecosystems are created by industry, research and application stakeholders that enable real-world use cases to accelerate the Internet of Things and establish open interoperability standards and common architectures for IoT solutions. Enabling technologies such as nanoelectronics, sensors/actuators, cyber-physical systems, intelligent device management, smart gateways, telematics, smart network infrastructure, cloud computing and software technologies will create new products, new services, new interfaces by creating smart environments and smart spaces with applications ranging from Smart Cities, smart transport, buildings, energy, grid, to smart health and life. Technical topics discussed in the book include: • Introduction• Internet of Things Strategic Research and Innovation Agenda• Internet of Things in the industrial context: Time for deployment.• Integration of heterogeneous smart objects, applications and services• Evolution from device to semantic and business interoperability• Software define and virtualization of network resources• Innovation through interoperability and standardisation when everything is connected anytime at anyplace• Dynamic context-aware scalable and trust-based IoT Security, Privacy framework• Federated Cloud service management and the Internet of Things• Internet of Things Applications **Resources in Education Dynamics of Particles and Rigid Bodies A Self-Learning Approach** *John Wiley & Sons* A unique approach to teaching particle and rigid body dynamics using solved illustrative examples and exercises to encourage self-learning The study of particle and rigid body dynamics is a fundamental part of curricula for students pursuing graduate degrees in areas involving dynamics and control of systems. These include physics, robotics, nonlinear dynamics, aerospace, celestial mechanics and automotive engineering, among others. While the field of particle and rigid body dynamics has not evolved significantly over the past seven decades, neither have approaches to teaching this complex subject. This book fills the void in the academic literature by providing a uniquely stimulating, "flipped classroom" approach to teaching particle and rigid body dynamics which was developed, tested and refined by the author and his colleagues over the course of many years of instruction at both the graduate and undergraduate levels. Complete with numerous solved illustrative examples and exercises to encourage self-learning in a flipped-classroom environment, Dynamics of Particles and Rigid Bodies: A Self-Learning Approach: Provides detailed, easy-to-understand explanations of concepts and mathematical derivations Includes numerous flipped-classroom exercises carefully designed to help students comprehend the material covered without actually solving the problem for them Features an extensive chapter on electromechanical modelling of systems involving particle and rigid body motion Provides examples from the state-of-the-art research on sensing, actuation, and energy harvesting mechanisms Offers access to a companion website featuring additional exercises, worked problems, diagrams and a solutions manual Ideal as a textbook for classes in dynamics and controls courses, Dynamics of Particles and Rigid Bodies: A Self-Learning Approach is a godsend for students pursuing advanced engineering degrees who need to master this complex subject. It will also serve as a handy reference for professional engineers across an array of industrial domains. **Handbook of Research on Innovative Approaches to Early Childhood Development and School Readiness** *IGI Global* School readiness is as much about schools recognizing the existing capabilities and knowledge each child has when they enter school as it is about supporting children and families in their preparation for entering formal learning environments. Effective approaches that address learning variability must take these differences into account, recognizing and leveraging opportunities inherent in the child's ecosystem of resources. The Handbook of Research on Innovative Approaches to Early Childhood Development and School Readiness assembles the most current research and thought-leadership on the ways in which innovative education stakeholders are working together to impact the most critical years in a child's life—the years leading up to and including kindergarten. Covering topics such as change agency, experience quality, and social-emotional development, this book is a crucial resource for educational researchers, child development professionals, school administrators, pre-K teachers, pre-service teachers, program managers, policymakers, non-profit service organizations, early childhood EdTech developers, curriculum developers, and academicians.