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Engineering Mechanics A Textbook of Engineering Mechanics Smart Innovation of Web of Things Engineering Mechanics A Textbook of Fluid Mechanics and Hydraulic Machines Engineering Mathematics-I A Textbook of Engineering Mechanics A Textbook of Manufacturing Technology Encyclopedia of Information Science and Technology Principles of Fluorescence Spectroscopy Endocrine Sex Differentiation in Fish Machine Design Green Materials for Wastewater Treatment A Textbook of Fluid Mechanics A Textbook of Applied Mechanics Recent Trends in Image Processing and Pattern Recognition Higher Engineering Mathematics Oral Cancer Detection Data, Engineering and Applications Transboundary Animal Diseases in Sahelian Africa and Connected Regions Current and Future Reproductive Technologies and World Food Production In the Wrong Place - Alien Marine Crustaceans: Distribution, Biology and Impacts Saliva in Health and Disease Phone & Spear Statics Amine Unit Corrosion in Refineries Basic Mechanical Engineering Oil and Gas Pipelines in the Black-Caspian Seas Region Essentials of Regional Anesthesia Mechanical Engineers' Handbook, Four Volume Set A Textbook of Engineering Mechanics (SI Units) A Textbook of Strength of Materials Bioremediation of Industrial Waste for Environmental Safety A Textbook of Engineering Mathematics (For First Year ,Anna University) Basic Civil Engineering Basic Mechanical Engineering Health and Physical Education Class 11 Fundamentals of Oral Medicine and Radiology Principles of Electronics [LPSPE] Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems

Machine Design is a text on the design of machine elements for the engineering undergraduates of mechanical/production/industrial disciplines. The book provides a comprehensive survey of machine elements and their analytical design methods. Besides explaining the fundamentals of the tools and techniques necessary to facilitate design calculations, the text includes extensive data on various aspects of machine elements, manufacturing considerations and materials. The extensive pedagogical features make the text student friendly and provide pointers for fast recapitulation. Saliva as a unique sample for health assessment is gaining attention among researchers of different fields in the last 20 years; being reflected in an impressive increase in the number of papers published studying saliva from different biological aspects in human and veterinary species. Once deemed merely a digestive juice is now considered a biological fluid capable of communicating information about physiopathological processes occurring in organisms, since saliva has been shown to contain molecular and bacterial compounds that can change in response to local and systemic pathologies. Furthermore, the interest of saliva as a diagnostic, prognostic and monitoring biofluid is forced by its non-invasive nature being of easy and inexpensive sampling, involving only minimal discomfort and allowing the collection of multiple/repeated specimens at anytime, anywhere and without need for specialized staff. In this contributed volume, the authors bring together, summarize and reflect the generated knowledge about saliva as a source of biomarkers for health and welfare evaluation in humans and animal models. This volume also highlights the importance of confounding factors, such as sampling methods, flow, total protein content, contamination, or storage. This book will serve as a manual for graduates, practitioners and researchers by providing general ideas about the possibilities and utilities of saliva in clinical practice or investigation, and indicating the main cautions each should have in mind before saliva usage. ??????????This book addresses the impacts of current and future reproductive technologies on our world food production and provides a significant contribution to the importance of research in the area of reproductive physiology that has never been compiled before. It would provide a unique opportunity to separate the impacts of how reproductive technologies have affected different species and their contributions to food production. Lastly, no publication has been compiled that demonstrates the relationship between developments in reproductive management tools and food production that may be used a reference for scientists in addressing future research areas. ?During the past 50 years assisted reproductive technologies have been developed and refined to increase the number and quality of offspring from genetically superior farm animal livestock species. Artificial insemination (AI), estrous synchronization and fixed-time AI, semen and embryo cryopreservation, multiple ovulation and embryo transfer (MOET), in vitro fertilization, sex determination of sperm or embryos, and nuclear transfer are technologies that are used to enhance the production efficiency of livestock species. This Is A Comprehensive Book Meeting Complete Requirements Of Engineering Mechanics Course Of Undergraduate Syllabus. Emphasis Has Been Laid On Drawing Correct Free Body Diagrams And Then Applying Laws Of Mechanics. Standard Notations Are Used Throughout And Important Points Are Stressed. All Problems Are Solved Systematically, So That The Correct Method Of Answering Is Illustrated Clearly. Care Has Been Taken To See That Students Learn The Methods Which Help Them Not Only In This Course, But Also In The Connected Courses Of Higher Classes.The Dynamics Part Is Split In To Sufficient Number Of Chapters To Clearly Illustrate Linear Motion To General Plane Motion. A Chapter On Shear Force And Bending Moment Diagrams Is Added At The End To Coyer The Syllabi Of Various Universities.All These Feature Make This Book A Self-Sufficient And A Good Text Book. Of all vertebrates, fish exhibit unparalleled diversity of sexual plasticity and flexibility, ranging from gonochorism to unisexualism, and

exceptional patterns of functional hermaphroditism. Fish farming and monosex aquaculture have led to reproductive dysfunction with males producing less milt, and females failing to ovulate and spawn. This book The five-volume set IFIP AICT 630, 631, 632, 633, and 634 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2021, held in Nantes, France, in September 2021.* The 378 papers presented were carefully reviewed and selected from 529 submissions. They discuss artificial intelligence techniques, decision aid and new and renewed paradigms for sustainable and resilient production systems at four-wall factory and value chain levels. The papers are organized in the following topical sections: Part I: artificial intelligence based optimization techniques for demand-driven manufacturing; hybrid approaches for production planning and scheduling; intelligent systems for manufacturing planning and control in the industry 4.0; learning and robust decision support systems for agile manufacturing environments; low-code and model-driven engineering for production system; meta-heuristics and optimization techniques for energy-oriented manufacturing systems; metaheuristics for production systems; modern analytics and new AI-based smart techniques for replenishment and production planning under uncertainty; system identification for manufacturing control applications; and the future of lean thinking and practice Part II: digital transformation of SME manufacturers: the crucial role of standard; digital transformations towards supply chain resiliency; engineering of smart-product-service-systems of the future; lean and Six Sigma in services healthcare; new trends and challenges in reconfigurable, flexible or agile production system; production management in food supply chains; and sustainability in production planning and lot-sizing Part III: autonomous robots in delivery logistics; digital transformation approaches in production management; finance-driven supply chain; gastronomic service system design; modern scheduling and applications in industry 4.0; recent advances in sustainable manufacturing; regular session: green production and circularity concepts; regular session: improvement models and methods for green and innovative systems; regular session: supply chain and routing management; regular session: robotics and human aspects; regular session: classification and data management methods; smart supply chain and production in society 5.0 era; and supply chain risk management under coronavirus Part IV: AI for resilience in global supply chain networks in the context of pandemic disruptions; blockchain in the operations and supply chain management; data-based services as key enablers for smart products, manufacturing and assembly; data-driven methods for supply chain optimization; digital twins based on systems engineering and semantic modeling; digital twins in companies first developments and future challenges; human-centered artificial intelligence in smart manufacturing for the operator 4.0; operations management in engineer-to-order manufacturing; product and asset life cycle management for smart and sustainable manufacturing systems; robotics technologies for control, smart manufacturing and logistics; serious games analytics: improving games and learning support; smart and sustainable production and supply chains; smart methods and techniques for sustainable supply chain management; the new digital lean manufacturing paradigm; and the role of emerging technologies in disaster relief operations: lessons from COVID-19 Part V: data-driven platforms and applications in production and logistics: digital twins and AI for sustainability; regular session: new approaches for routing problem solving; regular session: improvement of design and operation of manufacturing systems; regular session: crossdock and transportation issues; regular session: maintenance improvement and lifecycle management; regular session: additive manufacturing and mass customization; regular session: frameworks and conceptual modelling for systems and services efficiency; regular session: optimization of production and transportation systems; regular session: optimization of supply chain agility and reconfigurability; regular session: advanced modelling approaches; regular session: simulation and optimization of systems performances; regular session: AI-based approaches for quality and performance improvement of production systems; and regular session: risk and performance management of supply chains *The conference was held online. This monograph equips clinicians with the knowledge required to detect oral cancer at the earliest possible stage while simultaneously inspiring researchers to work on novel methods of detection. All the methods employed in the oral cancer context are considered, from simple ones like oral screening to more complex emerging optical methods and biomarker identification strategies. Individual chapters focus on conventional oral screening and application of vital stains, optical methods like white light based fluorescence-reflectance imaging, narrow band imaging, direct-oral-microscopy, and more advanced methods like optical coherence tomography, an in-vivo optical biopsy technique, and photo-acoustic imaging that allows visualization of deeper tissue changes. Novel electrical methods like bio-impedance assessment, occult biophysical methods like crystallization test, and the most promising salivary biomarkers and point-of-care opportunities are covered. Helpful information is also provided on essential topics including, oral potentially malignant disorders, biological aspects and molecular mechanisms underlying oral cancer progression, global epidemiology, concept of diagnostic delays, traditional imaging, and classic histopathology and microscopic features. The newer techniques are currently of active research interest, and can soon become powerful chair-side tools with potential to reduce diagnostic delays and improve survival. Mechanical Engineers' Handbook, Third Edition, Four Volume Set provides a single source for all critical information needed by mechanical engineers in the diverse industries and job functions they find themselves. No single engineer can be a specialist in all areas that they are called on to work and the handbook provides a quick guide to specialized areas so that the engineer can know the basics and where to go for further reading. In the second edition of Principles I have attempted to maintain the emphasis on basics, while updating the examples to include more recent results from the literature. There is a new chapter providing an overview of extrinsic fluorophores. The discussion of timeresolved measurements has been expanded to two chapters. Quenching has also been expanded in two chapters. Energy transfer and anisotropy have each been expanded to three chapters. There is also a new chapter on fluorescence sensing. To enhance the usefulness of this book as a textbook, most chapters are followed by a set of problems. Sections which describe advanced topics are indicated as such, to allow these sections to be skipped in an introduction course. Glossaries are provided for commonly used acronyms and mathematical symbols. For those wanting additional informtion, the final

appendix contains a list of recommended books which expand on various specialized topics.' from the author's Preface This three-volume set constitutes the refereed proceedings of the Second International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) 2018, held in Solapur, India, in December 2018. The 173 revised full papers presented were carefully reviewed and selected from 374 submissions. The papers are organized in topical sections in the three volumes. Part I: computer vision and pattern recognition; machine learning and applications; and image processing. Part II: healthcare and medical imaging; biometrics and applications. Part III: document image analysis; image analysis in agriculture; and data mining, information retrieval and applications. "This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher. Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

The corrosion of carbon steels in amine units used for gas treatment in refining operations is a major problem for the petrochemical industry. Maximising amine unit reliability, together with improving throughput, circulation and treatment capacity, requires more effective ways of measuring and predicting corrosion rates. However, there has been a lack of data on corrosion. This valuable report helps to remedy this lack of information by summarising findings from over 30 plants. It covers such amine types as methyl diethanolamine (MDEA), diethanolamine (DEA), monoethanolamine (MEA) and di-isopropanolamine (DIPA), and makes recommendations on materials and process parameters to maximise amine unit efficiency and reliability. Covers such amine types as Methyl Diethanolamine (MDEA) and Di-isopropanolamine Makes recommendations on materials and process parameters to maximise amine unit efficiency and reliability

Saraswati Health and Physical Education is a much acclaimed and popular series in Health and Physical Education. The series demonstrates a deep understanding of the principles and concepts related to the subject while providing students with all the pedagogical tools necessary for comprehension and application. The fully revised edition, which includes all the latest developments in the field, in its colourful avatar will not only enhance the teaching-learning process but will also make it more enjoyable. Achieving environmental sustainability with rapid industrialization is a major challenge of current scenario worldwide. As globally evident, industries are the key economic drivers, but are also the major polluters as untreated/partially treated effluents discharged from the industries is usually thrown into the aquatic resources and also dumped unattended. Industrial effluents are considered as the major sources of environmental pollution as these contains highly toxic and hazardous pollutants, which reaches far off areas due to the medium of dispersion and thus, create ecological nuisance and health hazards in living beings. Hence, there is an urgent to find ecofriendly solution to deal with industrial waste, and develop sustainable methods for treating/detoxifying wastewater before its release into the environment. Being a low cost and eco-friendly clean technology, bioremediation can be a sustainable alternative to conventional remediation technologies for treatment and management of industrial wastes to protect public health and environment. Therefore, this book (Volume I) covers the bioremediation of different industrial wastes viz. tannery wastewater, pulp and paper mill wastewater, distillery wastewater, acid mine tailing wastes, and many more; which are lacking in a comprehensive manner in previous literature at one place. A separate chapter dedicated to major industries and type of waste produced by them is also included. This book will appeal to students, researchers, scientists, industry persons and professionals in field of microbiology, biotechnology, environmental sciences, eco-toxicology, environmental remediation and waste management and other relevant areas, who aspire to work on the biodegradation and bioremediation of industrial wastes for environmental safety.

In *The Wrong Place: Alien Marine Crustaceans - Distribution, Biology And Impacts* provides a unique view into the remarkable story of how shrimps, crabs, and lobsters – and their many relatives – have been distributed around the world by human activity, and the profound implications of this global reorganization of biodiversity for marine conservation biology. Many crustaceans form the base of marine food chains, and are often prominent predators and competitors acting as ecological engineers in marine ecosystems. Commencing in the 1800s global commerce began to move hundreds – perhaps thousands – of species of marine crustaceans across oceans and between continents, both intentionally and unintentionally. This book tells the story of these invasions from Arctic waters to tropical shores, highlighting not only the importance and impact of all prominent crustacean invasions in the world's oceans, but also the commercial exploitation of invasive crabs and shrimps. Topics explored for the first time in one volume include the historical roots of man's impact on crustacean biogeography, the global dispersal of crabs, barnacle invasions, insights into the potential scale of tropical invasions, the history of the world's most widely cultured shrimp, the invasive history and management of red king crabs in Norway, Chinese mitten crabs in England, and American blue crabs in Europe, the evolutionary ecology of green crabs, and many other subjects as well, touching upon all ocean shores. This book reviews health hazards associated with wastewater use and water pollutants. Chapters present applications of green materials made of agricultural waste, activated carbon and magnetic materials for wastewater treatment. The removal of toxic metals using algal biomass and the removal of toxic dyes using chitosan composite materials are also discussed. The book includes reviews on the removal of phenols, pesticides, and on the use of ionic liquid-modified activated carbon for the treatment of textile wastewater. This book primarily focuses on the African Sahel region, shedding new light on the epidemiology, socio-economics, clinical manifestations and control approaches of transboundary animal diseases (TADs) in this specific region. In addition to the description of TADs in Sahelian Africa and connected regions, several issues regarding the burden of TADs, the role of national/regional/international veterinary organizations in the surveillance process, animal mobility, one health and TADs in the dromedary are discussed. The book contains 22 chapters

and is structured in three parts, i- general features and commonalities, ii- viral diseases, iii- bacterial diseases. Each chapter was written by a group of experts specialized in the topic. This work will be of general interest to researchers, veterinarians, veterinary public health officers, and students engaged in the surveillance and control of animal infectious diseases, included those of zoonotic nature and that are prevalent in the Sahel. The present edition of this book has been thoroughly revised and a lot of useful material has been added to improve its quality and use. It also contains a lot of pictures and colored diagrams for better and quick understanding as well as grasping the subject matter. This is a compact, single-source guide to regional anesthesia. Chapters are authored by regional anesthesia fellowship directors and fellows to insure maximum practicality and up-to-date coverage. Essentials of Regional Anesthesia covers all anatomical regions as well as the unique considerations in patients with chronic pain, obstetric patients, pediatric patients, and patients treated in the outpatient setting. A common chapter format makes it easy to find information quickly, and extensive illustrations enhance the text. Stay current with Essentials of Regional Anesthesia, and stay ahead with these helpful features:

- Ultrasound incorporated into each block
- Extremely practical focus
- More than 400 Q & As to test knowledge
- Authored by regional anesthesia fellowship directors and fellows
- Clinical pearls and guidance on complications
- Concise, clinically oriented review of relevant basic science
- Common chapter format for ease of use
- Well illustrated with 350 figures, nearly 200 in color

This book presents a compilation of current trends, technologies, and challenges in connection with Big Data. Many fields of science and engineering are data-driven, or generate huge amounts of data that are ripe for the picking. There are now more sources of data than ever before, and more means of capturing data. At the same time, the sheer volume and complexity of the data have sparked new developments, where many Big Data problems require new solutions. Given its scope, the book offers a valuable reference guide for all graduate students, researchers, and scientists interested in exploring the potential of Big Data applications. The Web of Things (WoT) is a concept that describes approaches, programming tools and software architectural systems, which interface networks of real-world objects with the World Wide Web. The book is organized into 11 chapters, each focusing on a unique wireless technological aspect of the Web of Things, and it aims to comprehensively cover each of its various applications, including:

- A strong emphasis on WoT problems and solutions, identifying the main open issues, innovations and latest technologies behind WoT
- A blend of theoretical and simulation-based problems for better understanding of the concepts behind WoT
- Various exemplifying applications in which the use of WoT is very attractive and an inspiration for future applications

The book will be useful to researchers, software developers and undergraduate and postgraduate students, as well as practitioners. This book concisely describes the architecture of the oil and gas pipelines in the Black-Caspian Seas Region and analyzes the status quo and perspectives of oil and gas production in this region. The authors present numerous projects, each of which has made a substantial contribution to the development of pipeline transport and transit in this part of the world, and discuss them in detail. The topics covered include: the region's geographic characteristics; the region's hydrocarbon potential; Russian and EU policy on pipeline transport; Kazakhstan's pipeline policy; Chinese pipeline projects; the Bulgarian gas transmission system; environmental risks in the production and transportation of hydrocarbons; satellite monitoring; and subsea leak detection. This volume offers a valuable resource for politicians, specialists in the oil and gas business, decision-makers, and environmentalists alike. In its 40th year, "Principles of Electronics" remains a comprehensive and succinct textbook for students preparing for B. Tech, B. E., B.Sc., diploma and various other engineering examinations. It also caters to the requirements of those readers who wish to increase their knowledge and gain a sound grounding in the basics of electronics. Concepts fundamental to the understanding of the subject such as electron emission, atomic structure, transistors, semiconductor physics, gas-filled tubes, modulation and demodulation, semiconductor diode and regulated D.C. power supply have been included, added and updated in the book as full chapters to give the reader a well-rounded view of the subject. Basic Mechanical Engineering covers a wide range of topics and engineering concepts that are required to be learnt as in any undergraduate engineering course. Divided into three parts, this book lays emphasis on explaining the logic and physics of critical problems to develop analytical skills in students. A visually striking intercultural exploration of the use of mobile phones in Aboriginal communities in Australia. Yuta is the Yolngu word for new. Phone & Spear: A Yuta Anthropology is a project inspired by the gloriously cheeky and deeply meaningful audiovisual media made with and circulated by mobile phones by an extended Aboriginal family in northern Australia. Building on a ten-year collaboration by the community-based arts collective Miyarrka Media, the project is an experiment in the anthropology of co-creation. It is a multivoiced portrait of an Indigenous society using mobile phones inventively to affirm connections to kin and country amid the difficult and often devastating circumstances of contemporary remote Aboriginal life. But this is not simply a book about Aboriginal art, mobile phones, and social renewal. If old anthropology understood its task as revealing one world to another, yuta anthropology is concerned with bringing different worlds into relationship. Following Yolngu social aesthetics—or what Miyarrka Media translate as "the law of feeling"—the book is a relational technology in its own right: an object that combines color, pattern, and story to bring once distant worlds into new sensuously mediated connections.

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