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Santalum album L. (East Indian  
Sandalwood) is a medium sized  
semi-parasitic tree which can  
reach to a height of 33 to 66  
feet in height. It is called as a  
miracle tree because of its  
immense uses in trade and  
traditional form of medicine in  
South East Asia. As it is semi  
parasitic in nature it prefers to  
"extract" nutrients from the  
roots of nearby plants by using  
haustoria. Essential oils of  
sandalwood have  
antispasmodic (relieve spasm  
of muscles), antibacterial (kill  
bacteria) and antiviral (kill  
viruses) properties.  
Sandalwood is used in  
treatment of inflammation, skin  
disorders, rashes, cough, fever,  
flu, hypertension and  
restlessness. Essential oils are  
used to improve functioning of  
liver, heart and stomach and to  
strengthen the gums of teeth  
and muscles. The fragrant oil  
from the wood is one of the

choicest perfumery material in  
the world and is recently  
reported to be highly effective  
in treatment of breast cancer  
too. It is mentioned in ancient  
scriptures of and various  
ASEAN countries that every  
part of sandalwood is used for  
some or the other benefit of  
human beings. This book is a  
compilation of information  
published in scientific journals  
regarding the cultivation and  
utilisation of this wonder tree.  
The chapters in the book  
contain a wide array of  
information regarding its  
distribution, uses, diversity,  
nursery techniques, plantation  
technology, insects and pests in  
plantation, harvesting and  
utilisation of sandalwood. It is  
expected that the book shall  
provide a ready to refer  
information for people  
interested in Sandalwood  
cultivation in ASEAN countries  
and world over. This book  
presents select proceedings of  
2nd International Conference  
on Recent Advances in  
Manufacturing (RAM 2021).  
The book provides insights into  
the current research trends  
and development in  
manufacturing processes. The  
topics covered include  
conventional and  
nonconventional manufacturing  
processes, micro and nano  
manufacturing processes,  
chemical and biochemical  
manufacturing, additive  
manufacturing, smart

manufacturing, and sustainable and energy-efficient manufacturing. The contributions presented here are intended to stimulate new research directions in the manufacturing domain. This book will be useful for the beginners, researchers and professionals working in the area of industrial and production engineering and allied fields. Virtual Teams That Work offers a much-needed, comprehensive guidebook for business leaders and managers who want to create the organizational conditions that will help virtual teams thrive. Each chapter in this important book focuses on best practices and includes case studies and illustrative examples from a wide variety of companies, including British Petroleum, Lucent Technologies, Ramtech, SoftCo, and Whirlpool Corporation. These real-life examples demonstrate how the principles identified in the book play out within virtual teams. Virtual Teams That Work shows how organizations can put in place the structure to help team members who speak different languages and have different cultural values develop effective ways of communicating when there is little opportunity for the members to meet face-to-face. The authors also reveal how organizations can implement performance management and reward systems that will motivate team members to cooperate across multiple boundaries. And they offer the information to determine which technologies best fit a variety

of virtual-team tasks and the level of information technology support needed. This book is a text on Signals and Systems, at the Second year degree level. The purpose of writing this book was to provide the reader with a precise practical up-to-date exposition of Signals and Systems. Accordingly this book contains a wealth of material that trains a student to face the challenges posed by growing trends in communication, controls, signal processing and other allied areas. Features Reflects our passion towards teaching by explaining tough abstract concepts in a very convincing manner without compromising the concepts. Consistency is an essential requirement of conviction. Hence, care is taken to make the subject matter more consistent in respect of various symbols and their implications. Problems are graded to meet the needs of University examination as well as qualifying examinations like GATE, IES... etc. Contents Fundamentals Linear Time - Invariant Systems Fourier Analysis and its Applications The Z-transform. This book comprises selected papers from the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS) 2019. The book presents latest research in several areas of civil engineering such as construction and structural engineering, geotechnical engineering, environmental engineering and sustainability, and geographical information systems. With a special emphasis on sustainable

development, the book covers case studies and addresses key challenges in sustainability. The scope of the contents makes the book useful for students, researchers, and professionals interested in sustainable practices in civil engineering. Nature-Inspired Optimization in Advanced Manufacturing Processes and Systems Subject Guide: Engineering—Industrial and Manufacturing The manufacturing system is going through substantial changes and developments in light of Industry 4.0. Newer manufacturing technologies are being developed and applied. There is a need to optimize these techniques when applied in different circumstances with respect to materials, tools, product configurations, and process parameters. This book covers computational intelligence applied to manufacturing. It discusses nature-inspired optimization of processes and the design and development in manufacturing systems. It explores all manufacturing processes, at both macro and micro levels, and offers manufacturing philosophies. Nonconventional manufacturing, real industry problems and case studies, research on generative processes, and relevance of all this to Industry 4.0, is also included. Researchers, students, academicians, and industry professionals will find this reference title very useful. Laser assisted fabrication involves shaping of materials using laser as a source of heat. It can be achieved by removal of materials (laser assisted

cutting, drilling, etc.), deformation (bending, extrusion), joining (welding, soldering) and addition of materials (surface cladding or direct laser cladding). This book on 'Laser assisted Fabrication' is aimed at developing in-depth engineering concepts on various laser assisted macro and micro-fabrication techniques with the focus on application and a review of the engineering background of different micro/macro-fabrication techniques, thermal history of the treated zone and microstructural development and evolution of properties of the treated zone. In cyber-physical systems (CPS), sensors and embedded systems are networked together to monitor and manage a range of physical processes through a continuous feedback system. This allows distributed computing using wireless devices. Cyber-Physical Systems—A Computational Perspective examines various developments of CPS that are impacting our daily lives and sets the stage for future directions in this domain. The book is divided into six sections. The first section covers the physical infrastructure required for CPS, including sensor networks and embedded systems. The second section addresses energy issues in CPS with the use of supercapacitors and reliability assessment. In the third section, the contributors describe the modeling of CPS as a network of robots and explore issues regarding the design of CPS. The fourth section focuses on the impact

of ubiquitous computing and cloud computing in CPS and the fifth section discusses security and privacy issues in CPS. The final section covers the role of CPS in big data analytics, social network analysis, and healthcare. As CPS are becoming more complex, pervasive, personalized, and dependable, they are moving beyond niche laboratories to real-life application areas, such as robotics, smart grids, green computing, and healthcare. This book provides you with a guide to current CPS research and development that will contribute to a "smarter" planet. "What does it take to grow up in a small remote village, walk six kilometers a day to school and go on to reach the highest echelons of success, be recognized with countless awards including the Padma Shri and Padma Bhushan and make an indelible mark on the Indian Space program, Educational and Scientific arenas? This book is an inspiring story of passion and perseverance, where we follow the life of Suresh BN, one of India's foremost scientists, someone who has made invaluable contributions to the Indian Space program and other educational and scientific institutions. From his humble beginnings in a remote village called Hoskare, near the town of Koppa, Karnataka, the book traces his life journey with all its ups and downs. Learn how a combination of passion, determination and some serendipity saw him find his way to ISRO; From those tentative beginnings, his story

follows interesting and sometime unexpected paths, with a fair share of challenges and life changing moments in the arena of rocket science and space education. What does it take to grow up in a small remote village, walk six kilometers a day to school and go on to reach the highest echelons of success, be recognized with countless awards including the Padma Shri and Padma Bhushan and make an indelible mark on the Indian Space program, Educational and Scientific arenas? This book is an inspiring story of passion and perseverance, where we follow the life of Suresh BN, one of India's foremost scientists, someone who has made invaluable contributions to the Indian Space program and other educational and scientific institutions. From his humble beginnings in a remote village called Hoskare, near the town of Koppa, Karnataka, the book traces his life journey with all its ups and downs. Learn how a combination of passion, determination and some serendipity saw him find his way to ISRO; From those tentative beginnings, his story follows interesting and sometime unexpected paths, with a fair share of challenges and life changing moments in the arena of rocket science and space education. " Success Can Be Yours blends success, happiness and leadership, and shows how it can be within the grasp of every person. The book helps readers equip themselves with useful skills. The authors present a fine array of sutras for a successful

life and emphasize on various perspectives that can help in achieving success besides encouraging aspiring leaders to pick up important leadership skills. The book discusses leadership styles and leadership research and shows how leadership education can minimize mistakes. Contains the proceedings of the Association. This issue of Neurosurgery Clinics focus on Intraoperative Imaging. Article topics will include historical, current and future intraoperative imaging modality; iMRI suites: history, design, utility and cost-effectiveness; Stereotactic platforms for iMRI; iMRI for tumor: maximizing extent of resection of glioma; iMRI for tumor: combining iMRI with functional MRI; iMRI for tumor: pituitary adenoma; iMRI for tumor: MR thermometry; iMRI for tumor: LITT for spinal tumors; iMRI for functional/epilepsy neurosurgery: DBS placement; iMRI for functional/epilepsy neurosurgery: MR thermometry for mesial temporal epilepsy; iMRI for functional/epilepsy neurosurgery: MR thermometry HIFU; Fluorescence imaging/agents in tumor resection; Intraoperative 3D ultrasound; Intraoperative 3D CT: spine surgery; Intraoperative 3D CT: cranial/functional/trigem; Intraoperative imaging for vascular lesions; Imaging of intraoperative drug delivery; Intraoperative ultrasound for peripheral nerve; and Intraoperative Raman Spectroscopy. This book

comprises the proceedings of a rural technologies conference organised by the Rural Technology Action Group (RuTAG), which was conceptualized and initiated by Principal Scientific Adviser (PSA) to the Government of India R. Chidambaram in 2003-04. The book highlights case studies and research into providing science and technology interventions for the development of rural areas. Covering various aspects of research carried out in the area of rural technologies, it offers a valuable resource for researchers, professionals, and policymakers alike. 'Engineering padicha nalla future - If you study engineering, you will have a good future.' This is a claim often repeated to children and teenagers by parents and teachers in many parts of India. But only those who have gone through an engineering college life know that it's not completely true. There is a difference between calling yourself as an engineering graduate and an engineer. India produces millions of engineering graduates like you and me but only very few of us are actual engineers. Many of us just graduate with an engineering degree, with an artistic dream in mind. What do you think is the difference between engineers in many countries around the world and engineers from India? In other countries, if David Pascal studied electrical engineering in college, few years later you can find him working as an electrical engineer. In India, if Ram Krishnamurthy studied

electrical engineering, few years later you can find him working in a completely irrelevant field like software coding, banking, photography and even movie directing. This book is not about the few engineering students in your class who love engineering. I don't hate them. In fact, I am very jealous that they study what they love. This book is about the majority of engineering graduates whose lives are wasted in engineering and is intended to tell you why you should make an attempt in pursuing your real passion, instead of being suffocated under the weight of an engineering degree. This is a story of India's Youth. Welcome to India, the land of Wasted Engineers. This text on Analog communication is designed for senior undergraduate level students in Electronics and communication engineering. The book takes you through basics of communication systems, different types of modulation schemes, Random variables, Random process and end with a detailed study on noise. Features Text is written in a lucid manner to make the reading a happy sojourn. Explained difficult abstract concepts in a convincing manner. Lots of diagram and figures have been given to make the subject clear. Graded worked examples are given to meet the needs of university examinations. Exercise problems are given at the end of every chapter for a self test. Contents Fourier transforms, its properties, system analysis and application. Basics of Communications system,

different techniques of AM generation and their detection schemes. Different types of angle modulation techniques and their domain representations. Random variables and random process. Basics of probability theory, probability density functions, transformation of random variables, auto correlation function and its properties, transmission of random process through filters, Power spectral density and its properties, Gaussian process and its properties and white noise process. Basics of noise, the reason of noise, different types of noises and their properties. Noise in continuous wave modulation systems. Exponential growth of the worldwide population requires increasing amounts of water, food, and energy. However, as the quantity of available fresh water and energy sources directly affecting cost of food production and transportation diminishes, technological solutions are necessary to secure sustainable supplies. In direct response to this reality, this book focuses on the water-energy-food nexus and describes in depth the challenges and processes involved in efficient water and energy production and management, wastewater treatment, and impact upon food and essential commodities. The book is organized into 4 sections on water, food, energy, and the future of sustainability, highlighting the interplay among these topics. The first section emphasizes water desalination, water

management, and wastewater treatment. The second section discusses cereal processing, sustainable food security, bioenergy in food production, water and energy consumption in food processing, and mathematical modeling for food undergoing phase changes. The third section discusses fossil fuels, biofuels, synthetic fuels, renewable energy, and carbon capture. Finally, the book concludes with a discussion of the future of sustainability, including coverage of the role of molecular thermodynamics in developing processes and products, green engineering in process systems, petrochemical water splitting, petrochemical approaches to solar hydrogen generation, design and operation strategy of energy-efficient processes, and the sustainability of process, supply chain, and enterprise. The book provides a comprehensive study of the subject covering basic as well as advanced concepts. Informal and simple in discussion, the text is designed without diluting the subject. Questions from leading university papers are solved supporting with necessary derivations. Features Conceptual explanation with problem solving approach. New and Revised Reinforcement problems. Completely Revised chapters on Network topology and Resonance. Easy New Techniques for conversion of two port parameters. Contents Circuit concepts and network simplification techniques Network topology Circuit Theorems Initial conditions in networks Laplace transforms

Resonance Two port networks Part of the Neurosurgery by Example series, this volume on surgical neuro-oncology presents exemplary cases in which renowned authors guide readers through the assessment and planning, decision making, surgical procedure, after care, and complication management of common and uncommon disorders. The cases explore a number of different types of nervous systems tumors, including glioblastoma, medulloblastoma, skull tumors, and more. Each chapter also contains 'pivot points' that illuminate changes required to manage patients in alternate or atypical situations, and pearls for accurate diagnosis, successful treatment, and effective complication management. Containing a focused review of medical evidence and expected outcomes, Surgical Neuro-Oncology is appropriate for neurosurgeons who wish to learn more about this subspecialty, and those preparing for the American Board of Neurological Surgery oral examination. This book covers the theory and mathematics needed to understand the concepts in control system design. Chapter 1 deals with compensation network design. Nonlinear control systems, including phase-plane analysis and the Delta method are presented in chapter 2. The analysis and design aspects based on the state variable approach are presented in Chapter 3. The discrete time control systems form the basis for the study of

digital control systems in Chapter 4, covering the frequency response, root locus analysis, and stability considerations for discrete-time control systems. The stability analysis based on the Lyapunov method is given in chapter 5. The appendices include two US government articles on industrial control systems (NIST) and the control system design for a solar energy storage system (U.S. Dept. of Energy). Concepts in the text are supported by numerical examples. Features:

- Covers the theory and mathematics needed to understand the concepts in control system design
- Includes two U.S. government articles on industrial control systems (NIST) and the control system design for a solar energy storage system (U.S. Department of Energy)

"This book of contributed chapters will provide the resources necessary for processing, characterization and manufacturing using lightweight materials across the globe, offering recent advances in the field of light weight material usage and its recent developments"-- A practitioner's take to Human resources management as a profession and function.

Whistling in the Dark: Twenty-one Queer Interviews focuses on issues like sexuality, sexual identity, marriage, gay marriage, heteronormativity, gay utopia, gay activism, gay bashing, police atrocities and the laws vis-à-vis these. The interviewees represent a cross section of society ranging from university professors, gay

rights activists and students, on the one hand, to working class men such as office boys, auto-rickshaw drivers and even undertrials who have served prison sentences, on the other. The thought-provoking narratives in this book are the outcome of probing and incisive questions put to the respondents by the editors R. Raj Rao and Dibyajyoti Sarma. Appealing to a wide readership, the narratives go beyond the conventional and provide a rare insight into the private lives of the respondents. Besides being a must read for gay activists and organisations, the book will also be a useful resource for post-graduate students and academics working in the fields of sexuality studies, feminism and alternative literature. This text is intended for use as an introduction to electromagnetic principles and engineering applications for electrical engineers. The increasing frequencies of analog systems as well as the increasing speeds of digital systems require the designers have a fundamental understanding of the basic electromagnetic principles and laws that are covered in this text. An important guiding principle throughout the preparation of the manuscript of the text was that the course it is intended to be used for will likely be the last course in electromagnetics that the majority of electrical engineering students will take. Due to the vector nature of EM fields, vector algebra is an essential tool for gaining a quantitative understanding of EM concepts and their applications; hence chapter 1 is

dedicated for learning the basic operations on vectors and their associated implications. Features Avoids lengthy derivations of theorems, particularly those involving extensive use of vector calculus. Emphasis is on clarity without sacrificing rigor and completeness. Every concept is fortified with detailed examples and abundant illustrations. Each chapter is concluded with a variety of exercise problems with answers to allow the students to test their understanding of the material covered in each chapter. Provides a solid grasp of electromagnetic fundamentals by emphasizing physical understanding supported by a lot of graded worked out examples. Chapter summary for a quick review before tests and examinations. Clearly marked sections and subsections make the text clearer and are not intimidating to the reader.

Contents

- Vector Analysis
- Electrostatics
- Steady Magnetic Fields
- Magnetic Forces, Materials and Inductance
- Time-Varying Electromagnetic Fields
- The Uniform Plane Wave

This text examines applications and covers statics with an emphasis on the dynamics of engineering electromagnetics. This edition features a new chapter on electromagnetic principles for photonics, and sections on cylindrical metallic waveguides and losses in waveguides and resonators. This edited book contains extended research papers from AIMTDR 2014. This includes recent research work in the fields of friction stir welding, sheet forming, joining

and forming, modeling and simulation, efficient prediction strategies, micro-manufacturing, sustainable and green manufacturing issues etc. This will prove useful to students, researchers and practitioners in the field of materials forming and manufacturing. This volume presents a selection of papers from the 2nd International Conference on Computational Methods in Manufacturing (ICMM 2019). The papers cover the recent advances in computational methods for simulating various manufacturing processes like machining, laser welding, laser bending, strip rolling, surface characterization and measurement. Articles in this volume discuss both the development of new methods and the application and efficacy of existing computational methods in manufacturing sector. This volume will be of interest to researchers in both industry and academia working on computational methods in manufacturing. "The purpose of this book is to provide an antenna design concept for Narrowband Internet of Things Applications and to discuss the variety of antenna design concepts and structures for various industrial requirements"--

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