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[TinyOS Programming](#)

Firewall Media
Almost every element
of life, from
commerce and
agriculture to
communication and
entertainment, has
been profoundly
altered by
computing. Around

the world, people rely on computers for the creation of systems for energy, transportation, and military use. Additionally, computing fosters scientific advancements that advance our basic understanding of the world and assist in finding answers to pressing health and environmental issues. Novel Research and Development Approaches in Heterogeneous Systems and Algorithms addresses novel research and developmental approaches in heterogenous systems and algorithms for information-centric networks of the future. Covering topics such as image identification and segmentation, materials data extraction, and wireless sensor networks, this premier reference source is a valuable resource for engineers, consultants, practitioners, computer scientists, students and educators of higher education, librarians, researchers, and academicians.

Fox and McDonald's Introduction to Fluid Mechanics IGI Global

This book introduces a modern approach to embedded system design, presenting software design and hardware design in a unified manner. It covers trends and challenges, introduces the design and use of single-purpose processors ("hardware") and

general-purpose processors ("software"), describes memories and buses, illustrates hardware/software tradeoffs using a digital camera example, and discusses advanced computation models, controls systems, chip technologies, and modern design tools. For courses found in EE, CS and other engineering departments.

Plates and Shells MIT Press

Data Warehouses are the primary means by which businesses can gain competitive advantage through analysing and using the information stored in their computerised systems.

However, the Data Warehousing market is inundated with confusing, often contradictory, technical information from suppliers of hardware, databases and tools. Data Warehousing in the Real World provides comprehensive guidelines and techniques for the delivery of decision support solutions using open-systems Data

Warehouses. Written by practitioners for practitioners Data Warehousing in the Real World describes each stage of the implementation process in detail: from project planning and requirements analysis, through architecture and design to administrative issues such as user access, security, back-up and recovery. Read this book to: - Learn the fundamentals of designing large-scale Data Warehouses using relational technology- Take advantage of product-independent comprehensive guidelines which cover all the issues you need to take into account when planning and building a Data Warehouse- Benefit from the authors' experience distilled into helpful hints and tips- Apply to your own situation with examples of real-life solutions taken from a variety of different business sectors- Make use of the templates for project-plans, system architectures and

database designs provided in the appendix

About the Authors: Sam Anahory is Director for Systems Integration at SHL Systemhouse (UK) where he runs their Data Warehousing practice, delivering Data Warehousing solutions to clients and managing the systems integration required. Prior to this, he built up and ran the Data Warehousing Practice for Oracle Corporation (UK). Dennis Murray is a Principal consultant with Oracle Corporation (UK). While through being the Technical Architect for many Data Warehousing solutions, he has accumulated a vast amount of experience on a wide range of hardware platforms. Together they have collaborated on developing and giving training courses, workshops and presentations on the business and technical issues associated with

delivering a Data Warehouse.

Introduction to Embedded Systems, Second Edition
John Wiley & Sons

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four

central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Numerical Methods and Applications
Atlantic Publishers & Dist
In this new first edition, well-known author Behrouz

Forouzan uses his accessible writing style and visual approach to simplify the difficult concepts of cryptography and network security. While many security books assume knowledge of number theory and advanced math, or present mainly theoretical ideas, Forouzan presents difficult security topics from the ground up. A gentle introduction to the fundamentals of number theory is provided in the opening chapters, paving the way for the student to move on to more complex security and cryptography topics. Difficult math concepts are organized in appendices at the end

of each chapter so that students can first learn the principles, then apply the technical background. Hundreds of examples, as well as fully coded programs, round out a practical, hands-on approach which encourages students to test the material they are learning.

Novel Research and Development Approaches in Heterogeneous Systems and Algorithms

Cambridge University Press

Effective from 2008-09 session, U.P.T.U. has introduced the subject of manufacturing processes for first year engineering students of all streams.

This textbook covers the entire course material in a distilled form.

Data Warehousing in the Real World Penguin India

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Numerical Methods and Applications, NMA 2010, held in Borovets, Bulgaria, in August 2010. The 60 revised full papers presented together with 3 invited papers were carefully reviewed and selected from numerous submissions for inclusion in this book. The papers are organized in topical sections on Monte Carlo and quasi-Monte Carlo methods, environmental

modeling, grid computing and applications, metaheuristics for optimization problems, and modeling and simulation of electrochemical processes.

Handbook of Universities
IBM Redbooks

Computer science and economics have engaged in a lively interaction over the past fifteen years, resulting in the new field of algorithmic game theory. Many problems that are central to modern computer science, ranging from resource allocation in large networks to online advertising, involve interactions between multiple self-interested parties. Economics and game theory offer a host of useful models and

definitions to reason about such problems. The flow of ideas also travels in the other direction, and concepts from computer science are increasingly important in economics. This book grew out of the author's Stanford University course on algorithmic game theory, and aims to give students and other newcomers a quick and accessible introduction to many of the most important concepts in the field. The book also includes case studies on online advertising, wireless spectrum auctions, kidney exchange, and network management.

Information Storage and Management Pearson Education India

The Iitians: The Story Of A Remarkable Indian Institution And How Its Alumni Are Reshaping The

World IIT (Indian Institute Of Technology) is India's biggest and most powerful brand, and arguably the toughest and most influential engineering school in the world. Since the first IIT was set up in the 1950s, thousands of graduates have walked out of the campus gates in Kharagpur, Mumbai, Chennai and elsewhere to become leaders in their chosen fields. In India, they head many of the biggest and most admired professionally managed companies. Abroad, they lead giant corporations, and their feats figure in the folklore of Silicon Valley. The power that the alumni of this one bunch of undergraduate schools wield in business, academe and research is comparable to that of Cambridge and Oxford in the heyday of the British Empire. Sandipan Deb, himself an IITian, delves into his own experience

and those of scores of alumni to try and explain what makes IITians such outstanding achievers. In part it may be that they cannot be anything else: only one in every hundred applicants gets admitted. Harvard, in comparison, takes one in eight. The unique village-like campuses peopled only by the super-bright and the intensely competitive hone the IITians' skills further. No wonder then that when they leave the campus, IITians look upon themselves as special people, capable of competing in their field with the best in the world. And, as their record shows, succeeding.

The IITians Course
Technology Part

The superabundance of data that is created by today's businesses is making storage a strategic investment priority for companies of

all sizes. As storage takes for dynamic precedence, the following infrastructure major initiatives emerge: Flatten and converge your network: IBM® takes an open, standards-based approach to implement the latest advances in the flat, converged data center network designs of today. IBM Storage solutions enable clients to deploy a high-speed, low-latency Unified Fabric Architecture. Optimize and automate virtualization: Advanced virtualization awareness reduces the cost and complexity of deploying physical and virtual data center infrastructure. Simplify management: IBM data center networks are easy to deploy, maintain, scale, and virtualize, delivering the foundation of consolidated operations

management. Storage is no longer an afterthought. Too much is at stake. Companies are searching for more ways to efficiently manage expanding volumes of data, and to make that data accessible throughout the enterprise. This demand is propelling the move of storage into the network. Also, the increasing complexity of managing large numbers of storage devices and vast amounts of data is driving greater business value into software and services. With current estimates of the amount of data to be managed and made available increasing at 60% each year, this outlook is where a storage area network (SAN) enters the arena.

SANs are the leading storage infrastructure for the global economy of today. SANs offer simplified storage management, scalability, flexibility, and availability; and improved data access, movement, and backup. Welcome to the cognitive era. The smarter data center with the improved economics of IT can be achieved by connecting servers and storage with a high-speed and intelligent network fabric. A smarter data center that hosts IBM Storage solutions can provide an environment that is smarter, faster, greener, open, and easy to manage. This IBM® Redbooks® publication provides an introduction to SAN and Ethernet networking, and how these networks help to

achieve a smarter data center. This book is intended for people who are not very familiar with IT, or who are just starting out in the IT world.

Synthesis and Optimization of Digital Circuits Prentice Hall
The book provides a thorough explanation of synthesis and optimization algorithms accompanied by a sound mathematical formulation and a unified notation.

Multimedia Communications: Applications, Networks, Protocols And Standards Cambridge University Press

Database Management Systems provides comprehensive and up-to-date coverage of the fundamentals of database systems. Coherent

explanations and practical examples have made this one of the leading texts in the field. The third edition continues in this tradition, enhancing it with more practical material. The new edition has been reorganized to allow more flexibility in the way the course is taught. Now, instructors can easily choose whether they would like to teach a course which emphasizes database application development or a course that emphasizes database systems issues. New overview chapters at the beginning of parts make it possible to skip other chapters in the part if you don't want the detail. More applications and examples have been added throughout the book, including SQL and Oracle examples. The applied flavor is further enhanced by the two new database applications chapters.

Design of Machine

Elements Firewall

Media

Presents the fundamentals of machine design. Each chapter contains theory and a number of solved examples.

Chapters one to five deal with the basic principles of machine design. The remainder of the book covers the design procedures for individual machine elements.

PRINCIPLES OF TRANSPORTATION ENGINEERING PHI

Learning Pvt. Ltd.

This book provides comprehensive coverage of the fundamental concepts and all the key topics of interest in Strength of Materials with an emphasis on solving

practical problems, fromof excellent worked-out the first principles, examples of practical related to the design of applications, and structural members, challenging problems. mechanical devices and The book is intended systems in several for the undergraduate fields of engineering. students of civil, mechanical, electrical, chemical, aeronautical, and production and industrial engineering. The book is organized to present a thorough treatment of stress analysis first. This treatment of basic principles is followed by appropriate application of analysis techniques and design approaches to trusses and cables, torsion in circular shaft, deflection of beams, buckling of straight columns and struts, and analysis of thick- and thin-walled cylinders under internal and external pressure. The book features clear explanations, a wealth

Key Features Provides a large number of worked-out examples to help students comprehend the concepts with ease. Gives chapter-end review questions to test students ' understanding of the subject. Includes chapter-end numerical problems to enhance the problem-solving ability of students. Many of the problems depict realistic

situations encountered in engineering practice. Incorporates objective type questions to help students assess their overall mastery of the subject.

Design of Machine

Elements Academic Press

The new edition of a bestseller, now revised and update throughout! This new edition of the unparalleled bestseller serves as a full training course all in one and as the world's largest data storage company, EMC is the ideal author for such a critical resource. They cover the components of a storage system and the different storage system models while also offering essential new material that explores the advances in existing technologies and the emergence of the "Cloud" as well as updates and vital information on new technologies. Features

a separate section on emerging area of cloud computing Covers new technologies such as: data de-duplication, unified storage, continuous data protection technology, virtual provisioning, FCoE, flash drives, storage tiering, big data, and more Details storage models such as Network Attached Storage (NAS), Storage Area Network (SAN), Object Based Storage along with virtualization at various infrastructure components Explores Business Continuity and Security in physical and virtualized environment Includes an enhanced Appendix for additional information This authoritative guide is essential for getting up to speed on the newest advances in information storage and management. Advanced Computer Architecture Cambridge University Press

In the preparation of this book, my aim has been to present the text in a sequential and lucid manner, containing all essentials of practical surveying. The book proves to be a valuable source of study to those who are preparing for GATE and other competitive examinations. This book contains Nine chapters. The most outstanding feature of the book is the condensation of the exhaustive theory into a systematic, point wise pattern and insertions of explanatory notes particularly with reference to the more common surveying operations for easy learning of the students. A large portion of the material presented in this book has been derived from the work of

others . Their contribution is greatly acknowledged. An attempt has been made to also include all the recent developments in the field of surveying. Computer Organization Booksclinic Publishing This edition of Design of Machine Elements has been revised extensively to bring in several new topics and update other contents. Plethora of solved examples and practice problems make this an excellent offering for the students and the teachers. Highligh. Pattern Recognition and Image Analysis New Age International Introduction -- Supervised learning -- Bayesian decision theory -- Parametric methods -- Multivariate methods --

Dimensionality reduction -- Clustering -- Nonparametric methods -- Decision trees -- Linear discrimination -- Multilayer perceptrons -- Local models -- Kernel machines -- Graphical models -- Brief contents -- Hidden markov models -- Bayesian estimation -- Combining multiple learners -- Reinforcement learning -- Design and analysis of machine learning experiments.

Advanced Digital Signal Processing American Mathematical Soc. The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational &

Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy

Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In

Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

GEOMATICS
ENGINEERING

Springer Nature

This detailed introduction to transportation engineering is designed to serve as a comprehensive text for under-graduate as well as first-year master's students in civil engineering. In order to keep the treatment focused, the emphasis is on roadways (highways) based transportation systems, from the perspective of Indian conditions.