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**Dr Kranthi Kumar Singamaneni, Mrs
Vijaya Saraswathi Redrowthu & Mrs
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An Engineering Approach To Computer Networking: Atm Networks, The Internet, And The Telephone Network
Keshav, 1997-09 *DATA COMMUNICATIONS AND COMPUTER NETWORKS, SECOND EDITION* GUPTA, PRAKASH C., 2013-11-02
Primarily intended as a text for undergraduate courses in Electronics and Communications Engineering Computer Science IT courses and Computer Applications this up to date and accessible text gives an indepth analysis of data communications and computer networks in an easy to read style Though a new title it is a completely revised and fully updated version of the author s earlier book Data Communications The rapid strides made during the last decade in the fields of data communication and networking and the close link between these two subjects have prompted the author to add several chapters on computer networks in this text The book gives a masterly analysis of topics ranging from the principles of data transmission to computer networking applications It also provides standard protocols thereby enabling to bridge the gap between theory and practice What s more it correlates the network protocols to the concepts which are explained with the help of numerous examples to facilitate students understanding of the subject This well organized text presents the latest developments in the field and details current topics of interest such as Multicasting MPLS IPv6 Gigabit Ethernet IPsec SSL Auto negotiation Wireless LANs Network security Differentiated services and ADSL Besides students the practicing professionals would find the book to be a valuable resource The book in its second edition introduces a full chapter on Quality of Service highlighting the meaning parameters and functions required for quality of service This book is recommended in Kaziranga University Nagaland IIT Guwahati Assam and West Bengal University of Technology WBUT West Bengal for B Tech Key Features The book is self contained and student friendly The sequential organization lends flexibility in designing courses on the subject Large number of examples diagrams and tables illustrate the concepts discussed in the text Numerous exercises with answers a list of acronyms and references to protocol standards *COMPUTER NETWORKS The way of interconnecting and communicating people with other people* Dr Kranthi Kumar Singamaneni, Mrs Vijaya Saraswathi Redrowthu & Mrs Vasavi Ravuri, 2020-08-07 1 1
INTRODUCTION Computer Networks A collection of autonomous computers interconnected by a single technology to facilitate data communication Two computers are said to be interconnected if they are able to exchange information The connection need not be via a copper wire fiber optics microwaves infrared and communication satellites can also be of used The computers are autonomous which are not forcibly started stopped or controlled by other one A system with one control unit and more than one slave is not a computer network Computer network consists of end systems or nodes which are capable of transmitting information and which communicate through a transit system interconnected them The transit system also called as interconnection subsystem or sub network The nodes in the computer network comprise the computer terminals software and peripherals forming an autonomous system capable of performing information processing End system has an interface or interaction through which it is

physically connected with subnet The interaction point has an address by which end system is identified Each end system hosts one or more application entities by which the communication takes place between end systems The subnet performs all transmission and switching activities Transmission media connect end system and subnet and carry information

INTERNETWORKING TECHNOLOGIES BANERJEE, RAHUL,2003-01-01 Designed as an advanced text on internetworking technologies for senior undergraduate graduate students of computer science this unique book provides an introduction to the key concepts related to front line areas of internetwork specific research and development The text would also be highly useful to professionals who wish to keep abreast of various state of the art technologies in their fields of research

Resource Proportional Software Design for Emerging Systems Suparna Bhattacharya,Kanchi Gopinath,Doug Voigt,2020-02-25 Efficiency is a crucial concern across computing systems from the edge to the cloud Paradoxically even as the latencies of bottleneck components such as storage and networks have dropped by up to four orders of magnitude software path lengths have progressively increased due to overhead from the very frameworks that have revolutionized the pace of information technology Such overhead can be severe enough to overshadow the benefits from switching to new technologies like persistent memory and low latency interconnects Resource Proportional Software Design for Emerging Systems introduces resource proportional design RPD as a principled approach to software component and system development that counters the overhead of deeply layered code without removing flexibility or ease of development RPD makes resource consumption proportional to situational utility by adapting to diverse emerging needs and technology systems evolution Highlights Analysis of run time bloat in deep software stacks an under explored source of power performance wastage in IT systems Qualitative and quantitative treatment of key dimensions of resource proportionality Code features Unify and broaden supported but optional features without losing efficiency Technology and systems evolution Design software to adapt with changing trade offs as technology evolves Data processing Design systems to predict which subsets of data processed by an analytics or ML application are likely to be useful System wide trade offs Address interacting local and global considerations throughout software stacks and hardware including cross layer co design involving code data and systems dimensions and non functional requirements such as security and fault tolerance Written from a systems perspective to explore RPD principles best practices models and tools in the context of emerging technologies and applications This book is primarily geared towards practitioners with some advanced topics for researchers The principles shared in the book are expected to be useful for programmers engineers and researchers interested in ensuring software and systems are optimized for existing and next generation technologies The authors are from both industry Bhattacharya and Voigt and academic Gopinath backgrounds

Tcl and the Tk Toolkit John K. Ousterhout,Ken Jones,2009-08-31 John K Ousterhout s Definitive Introduction to Tcl Tk Now Fully Updated for Tcl Tk 8 5 Tcl and the Tk Toolkit Second Edition is the fastest way for newcomers to master Tcl Tk and is the most authoritative resource for experienced programmers seeking to

gain from Tcl/Tk 8.5's powerful enhancements. Written by Tcl/Tk creator John K. Ousterhout and top Tcl/Tk trainer Ken Jones, this updated volume provides the same extraordinary clarity and careful organization that made the first edition the world's number one Tcl/Tk tutorial. Part I introduces Tcl/Tk through simple scripts that demonstrate its value and offer a flavor of the Tcl/Tk scripting experience. The authors then present detailed practical guidance on every feature necessary to build effective, efficient production applications, including variables, expressions, strings, lists, dictionaries, control flow, procedures, namespaces, file and directory management, interprocess communication, error and exception handling, creating and using libraries, and more. Part II turns to the Tk extension, and Tk 8.5's new themed widgets, showing how to organize sophisticated user interface elements into modern GUI applications for Tcl. Part III presents incomparable coverage of Tcl's C functions, which are used to create new commands and packages and to integrate Tcl with existing C software, thereby leveraging Tcl's simplicity while accessing C libraries or executing performance-intensive tasks. Throughout, the authors illuminate all of Tcl/Tk 8.5's newest, most powerful improvements. You'll learn how to use new Starkits and Starpacks to distribute run-time environments and applications through a single file; how to take full advantage of the new virtual file system support to treat entities such as zip archives and HTTP sites as mountable file systems; and more. From basic syntax to simple Tcl commands, user interface development to C integration, this fully updated classic covers it all. Whether you're using Tcl/Tk to automate system/network administration, streamline testing, control hardware, or even build desktop or Web applications, this is the one Tcl/Tk book you'll always turn to for answers.

Effective C++ Scott Meyers, 2005. The book is organized around 55 specific guidelines, each of which describes a way to write better C++. Each is backed by concrete examples. Cover **Effective STL** Scott Meyers, 2001. C++'s Standard Template Library is revolutionary, but learning to use it well has always been a challenge for students. In *Effective STL*, best-selling author Scott Meyers' *Effective C++* reveals the critical rules of thumb employed by the experts: the things they almost always do or almost always avoid doing to get the most out of the library. This book offers clear, concise, and concrete guidelines to C++ programmers. While other books describe what's in the STL, *Effective STL* shows the student how to use it. Each of the book's 50 guidelines is backed by Meyers' legendary analysis and incisive examples, so the student will learn not only what to do but also when to do it and why.

Network Management: Principles and Practice Mani Subramanian, 2010. *Network Management Principles and Practice* is a reference book that comprehensively covers various theoretical and practical concepts of network management. It is divided into four units. The first unit gives an overview of network management. The **Active and Programmable Networks for Adaptive Architectures and Services** Syed Asad Hussain, 2006-12-15. Most conventional networks are passive, with only basic traffic monitoring, management, routing, and congestion control. At best, they can be called reactive. Deploying new functions and integrating new standards into these architectures is difficult due to the rigid embedding of software and hardware into the network components. Active and Programmable Networks for Adaptive Architectures and Services

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