

# Data Communication And Computer Networks Prakash C Gupta

## A Journey Beyond Bytes: Unveiling the Magic of Data Communication and Computer Networks by Prakash C. Gupta

Prepare to be utterly captivated! If you've ever looked at the blinking lights of your router and wondered about the unseen ballet of information dancing around you, then Prakash C. Gupta's **Data Communication and Computer Networks** is your passport to a world more vibrant and imaginative than you could ever conceive. Forget dry technical jargon; this book transforms complex concepts into a breathtaking adventure that will resonate with readers of all ages, from curious young minds to seasoned academics and engaged book clubs.

What truly sets this work apart is its incredible ability to paint a vivid and immersive setting. Gupta doesn't just explain networks; he invites you to step into a sprawling metropolis of data, where signals zip through fiber optic highways and servers hum with the energy of a thousand bustling marketplaces. You'll feel the thrill of packet delivery, empathize with the challenges of congestion, and marvel at the intricate architecture that holds our digital world together. It's like discovering a secret, pulsating kingdom hidden in plain sight!

Beyond the thrilling world-building, the book possesses a surprising and delightful emotional depth. Gupta masterfully weaves in relatable analogies and scenarios that highlight the human element at the heart of every connection. You'll find yourself rooting for data packets, feeling the satisfaction of a successful transmission, and even experiencing a touch of suspense as potential network disruptions loom. This emotional resonance makes the learning process not just educational, but profoundly engaging and memorable.

The universal appeal of **Data Communication and Computer Networks** is undeniable. Whether you're a young adult dipping your toes into the digital ocean, a book club seeking a thought-provoking and accessible read, or an academic looking for a fresh perspective, this book delivers. It's written with such clarity and

enthusiasm that even the most daunting topics feel approachable and exciting. You'll find yourself eagerly discussing concepts with friends and family, sharing the wonder of this invisible infrastructure.

Here are just a few reasons why this book deserves a prime spot on your bookshelf:

**Imaginative Setting:** Gupta transforms the abstract into the awe-inspiring, creating a living, breathing world of data.

**Emotional Depth:** You'll connect with the journey of information, making the learning process deeply personal.

**Universal Appeal:** Accessible and engaging for readers of all backgrounds and levels of technical expertise.

**Clear and Engaging Explanations:** Complex ideas are demystified with brilliant analogies and captivating prose.

**A Sense of Wonder:** Rediscover the magic and marvel of the interconnected world we inhabit.

Reading **Data Communication and Computer Networks** is more than just acquiring knowledge; it's embarking on a magical journey that will forever change how you perceive the digital landscape. It's a book that entertains, educates, and inspires in equal measure. This is not just a textbook; it's a gateway to understanding the very fabric of our modern lives.

**This is a timeless classic, a true treasure that continues to capture hearts worldwide.** Its ability to illuminate the complex with such grace and wonder is a testament to Prakash C. Gupta's genius. Don't miss out on experiencing this incredible adventure. It's a book that will not only expand your mind but also ignite your imagination, leaving you with a profound appreciation for the invisible threads that connect us all. **I wholeheartedly recommend this book; it is an absolute must-read for anyone seeking to be entertained and enlightened.**

DATA COMMUNICATIONS AND COMPUTER NETWORKS  
CRYPTOGRAPHY AND NETWORK SECURITY  
Intelligent Computing, Smart Communication and Network Technologies  
The Case Against Reality  
Advances in Communication, Devices and Networking  
Software Defined Internet of Everything  
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Communications and Networks PRAKASH C. GUPTA GUPTA, PRAKASH C. Paulraj Dassan Donald Hoffman Sourav Dhar Gagangeet Singh Aujla Przemysław Kazienko Milind Pande Petros Nicopolitidis Hongbo Zhou

DATA COMMUNICATIONS AND COMPUTER NETWORKS CRYPTOGRAPHY AND NETWORK SECURITY Intelligent Computing, Smart Communication and Network Technologies The Case Against Reality Advances in Communication, Devices and Networking Software Defined Internet of Everything Applications of Social Media and Social Network Analysis Optimization Methods in Mobile Communication Systems Advances in Computing, Informatics, Networking and Cybersecurity World Congress on Neural Networks Digital Signal Processing Applications Indian Book Industry Conference Proceedings Networks 2002 Proceedings of the Trends in Electronics Conference SIAM Journal on Applied Mathematics Autoconfiguration and Security for Wireless Networks IEEE/ACM Transactions on Networking All-optical Communication Systems: Architecture, Control, and Network Issues Journal of Communications and Networks *PRAKASH C. GUPTA, PRAKASH C. Paulraj Dassan Donald Hoffman Sourav Dhar Gagangeet Singh Aujla Przemysław Kazienko Milind Pande Petros Nicopolitidis Hongbo Zhou*

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 ethernets 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 is intended for the undergraduate and postgraduate students of computer science and engineering and information technology and the students of master of computer applications the purpose of this book is to introduce this subject as a comprehensive text which is self contained and covers all the aspects of network security each chapter is divided into sections and subsections to facilitate design of

the curriculum as per the academic needs the text contains numerous examples and illustrations that enhance conceptual clarity each chapter has set of problems at the end of chapter that inspire the reader to test his understanding of the subject answers to most of the problems are given at the end of the book key features the subject matter is illustrated with about 200 figures and numerous examples at every stage of learning the list of recommended books technical articles and standards is included chapter wise at the end of the book an exhaustive glossary and a list of frequently used acronyms are also given the book is based on the latest versions of the protocols like ipsec s mime kerberos x 509 etc

this book constitutes the refereed proceedings of the first international conference on intelligent computing smart communication and network technologies icicscnt 2023 held in chennai india during april 26 27 2023 the 36 full papers included in this book were carefully reviewed and selected from 782 submissions the main aim of icicscnt 2023 is to present the state of the art research innovations and results in the area of intelligent systems and advanced control technologies and real world applications in ict research particularly covering autonomous systems artificial intelligence sensing hardware and software implementation soft computing optimization intelligent control design intelligent system integration and control applications and other relevant research areas

can we trust our senses to tell us the truth challenging leading scientific theories that claim that our senses report back objective reality cognitive scientist donald hoffman argues that while we should take our perceptions seriously we should not take them literally from examining why fashion designers create clothes that give the illusion of a more attractive body shape to studying how companies use color to elicit specific emotions in consumers and even dismantling the very notion that spacetime is objective reality the case against reality dares us to question everything we thought we knew about the world we see

this book covers recent trends in the field of devices wireless communication and networking it gathers selected papers presented at the international conference on communication devices and networking iccdn 2020 which was organized by the department of electronics and communication engineering sikkim manipal institute of technology sikkim india on 19 20 december 2020 gathering cutting edge research papers prepared by researchers engineers and industry professionals it helps young and experienced scientists and developers alike to explore new perspectives and offer them inspirations on how to address real world problems in the areas of electronics communication devices and networking

this book provides comprehensive discussion on key topics related to the usage and deployment of software defined networks sdn in internet of everything applications

like healthcare systems data centers edge fog computing vehicular networks intelligent transportation systems smart grids smart cities and more the authors provide diverse solutions to overcome challenges of conventional network binding in various internet of everything applications where there is need of an adaptive agile and flexible network backbone the book showcases different deployment models algorithms and implementations related to the usage of sdn in internet of everything applications along with the pros and cons of the same even more this book provides deep insights into the architecture of software defined networking specifically about the layered architecture and different network planes logical interfaces and programmable operations the need of network virtualization and the deployment models for network function virtualization is also included with an aim towards the design of interoperable network architectures by researchers in future uniquely the authors find hands on practical implementation deployment scenarios and use cases for various software defined networking architectures in internet of everything applications like healthcare networks internet of things intelligent transportation systems smart grid underwater acoustic networks and many more in the end design and research challenges open issues and future research directions are provided in this book for a wide range of readers

this collection of contributed chapters demonstrates a wide range of applications within two overlapping research domains social media analysis and social network analysis various methodologies were utilized in the twelve individual chapters including static dynamic and real time approaches to graph textual and multimedia data analysis the topics apply to reputation computation emotion detection topic evolution rumor propagation evaluation of textual opinions friend ranking analysis of public transportation networks diffusion in dynamic networks analysis of contributors to communities of open source software developers biometric template generation as well as analysis of user behavior within heterogeneous environments of cultural educational centers addressing these challenging applications is what makes this edited volume of interest to researchers and students focused on social media and social network analysis

this book presents the result of an innovative challenge to create a systematic literature overview driven by machine generated content this machine generated volume with chapter introductions by the human expert of summaries of the existing studies furthers our understanding of the optimization methods in mobile communication systems the book provides a machine generated comprehensive yet classified review of the optimization methods techniques and approaches associated with different mobile communications and systems including wavelet based cr ofdm systems mimo slot antenna with low mutual coupling for 5g networks etc it also covers mainly the techniques for performance analysis of mimo systems such as the hybrid filtering technique for mimo ofdm systems and artificial

intelligence solutions beyond 5g radio access networks questions and related keywords were prepared for the machine to query discover collate and structure by artificial intelligence ai clustering the ai based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex interdisciplinary and multidisciplinary springer nature has published much on these topics in its journals over the years so the challenge was for the machine to identify the most relevant content and present it in a structured way that the reader would find useful the automatically generated literature summaries in this book are intended as a springboard to further discoverability they are particularly useful to readers with limited time looking to learn more about the subject quickly and especially if they are new to the topics springer nature seeks to support anyone who needs a fast and effective start in their content discovery journey from the undergraduate student exploring interdisciplinary content to master or phd thesis developing research questions to the practitioner seeking support materials this book can serve as an inspiration to name a few examples it is important to us as a publisher to make advances in technology easily accessible to our authors and find new ways of ai based author services that allow human machine interaction to generate readable usable collated research content

this book presents new research contributions in the above mentioned fields information and communication technologies ict have an integral role in today s society four major driving pillars in the field are computing which nowadays enables data processing in unprecedented speeds informatics which derives information stemming from processed data to feed relevant applications networking which interconnects the various computing infrastructures and cybersecurity for addressing the growing concern for secure and lawful use of the ict infrastructure and services its intended readership covers senior undergraduate and graduate students in computer science and engineering and electrical engineering as well as researchers scientists engineers ict managers working in the relevant fields and industries

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