

Número 1. Año 2026

Catálogo de material para adquirir



DGTIC UNAM
DIRECCIÓN GENERAL DE CÓMPUTO Y
DE TECNOLOGÍAS DE INFORMACIÓN
Y COMUNICACIÓN

**Biblioteca
Ciudad Universitaria**





Introducción

El presente catálogo de materiales para compra reúne una selección de recursos bibliográficos especializados en Tecnologías de la Información y Comunicación, transformación digital, inteligencia artificial y áreas afines. Su propósito es apoyar la actualización y el fortalecimiento del acervo de las bibliotecas de la DGTIC, así como contribuir al desarrollo de proyectos académicos, de investigación y de innovación institucional.

Te invitamos a revisar el catálogo y seleccionar aquellos materiales que sean de tu interés para enriquecer nuestras colecciones o respaldar tus iniciativas académicas y profesionales.

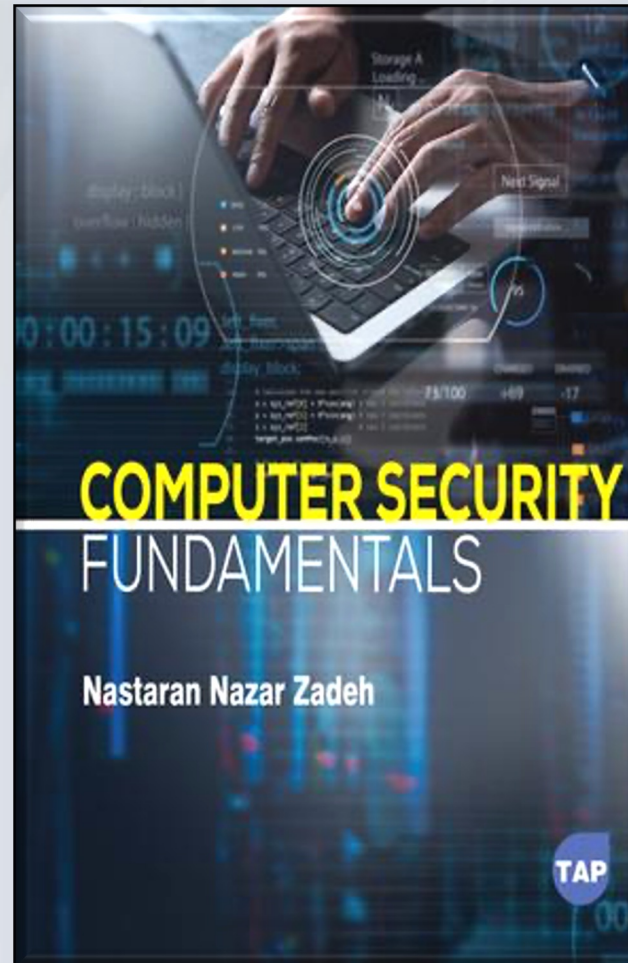
Puedes enviar tu selección al siguiente correo electrónico: biblioteca.cu.dgtic@unam.mx

Agradecemos tu participación y colaboración en el fortalecimiento de nuestros recursos documentales.



Computer Security Fundamentals

Nastaran Nazar Zadeh
Toronto Academic Press, 2025
eBook ISBN 9781779566980



This book aims to provide a thorough understanding of the fundamental concepts of computer security. Topics include cryptography, network security, malware, and risk management. The book also addresses emerging threats and the latest security technologies. Practical examples and case studies help students understand the application of security principles in various contexts. Designed for both undergraduate students and professionals, it lays a solid foundation for further studies in cybersecurity.

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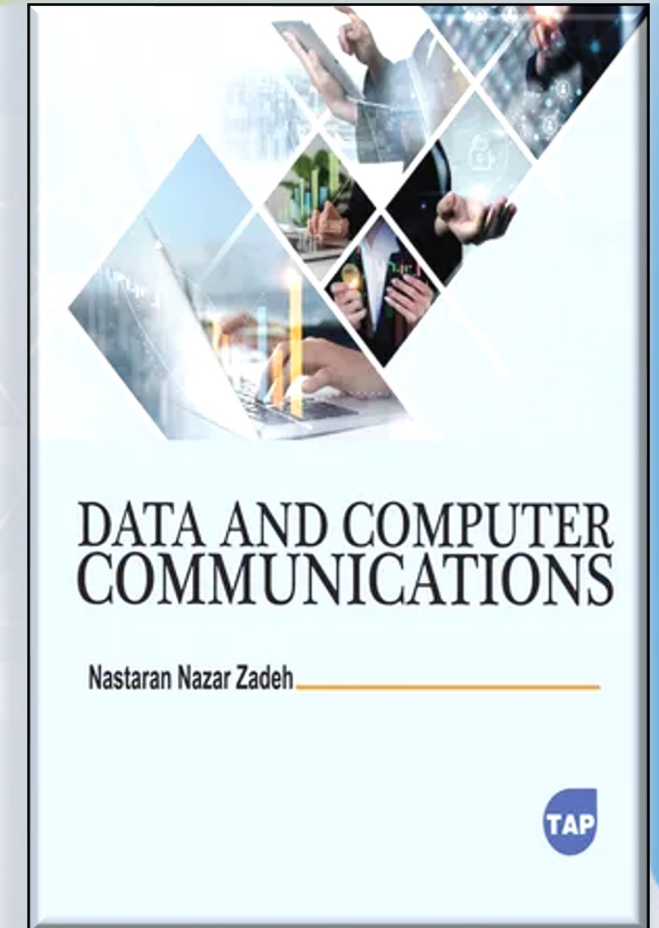
Data and Computer Communications

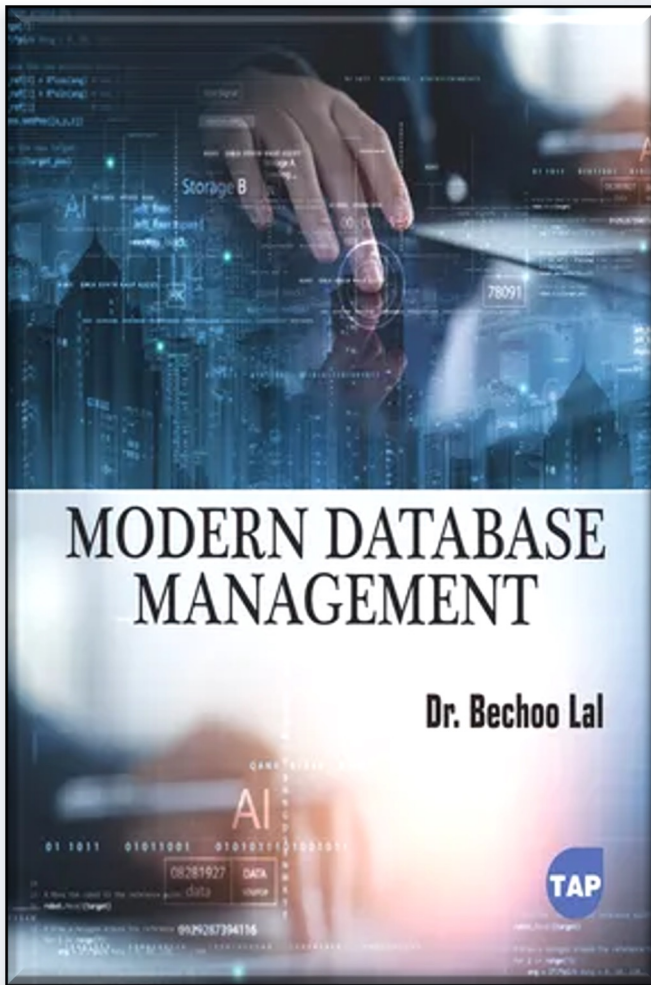
Nastaran Nazar Zadeh
Toronto Academic Press, 2025
eBook ISBN 9781779567017



The aim of this book is to provide a comprehensive understanding of data and computer communications. Topics include network architecture, protocols, wireless communication, and network security. The book covers both fundamental concepts and advanced technologies in data communication. Practical examples and case studies illustrate the application of concepts in real-world network environments. It is designed for undergraduate and graduate courses in computer science, engineering, and information systems.

https://www.perlego.com/book/4933824/data-and-computer-communications-pdf?queryID=e129cde3d76ecf1305191f02ecfeefd4&index=prod_BOOKS&gridPosition=2&searchType=title





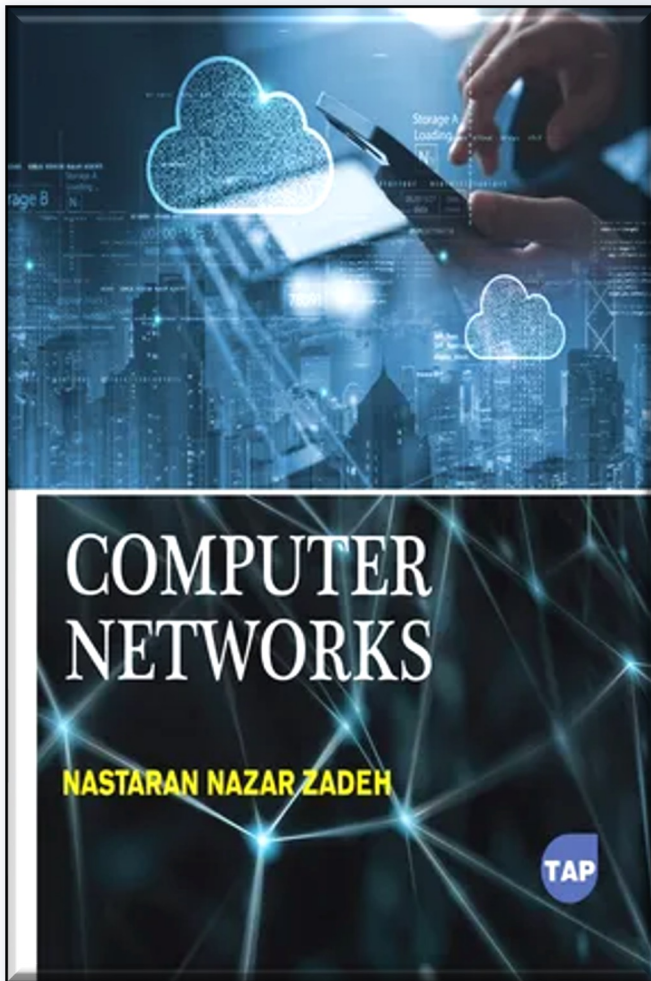
Modern Database Management

Dr. Bechoo Lal
Toronto Academic Press, 2025
eBook ISBN 9781779567055

This book presents a comprehensive understanding of database management systems. Topics include database design, SQL, data modeling, and database administration. The book covers both theoretical concepts and practical applications of database technology. Case studies and real-world examples illustrate the use of databases in different organizational settings. It is designed for undergraduate and graduate courses in computer science, information systems, and related fields.

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Computer Networks

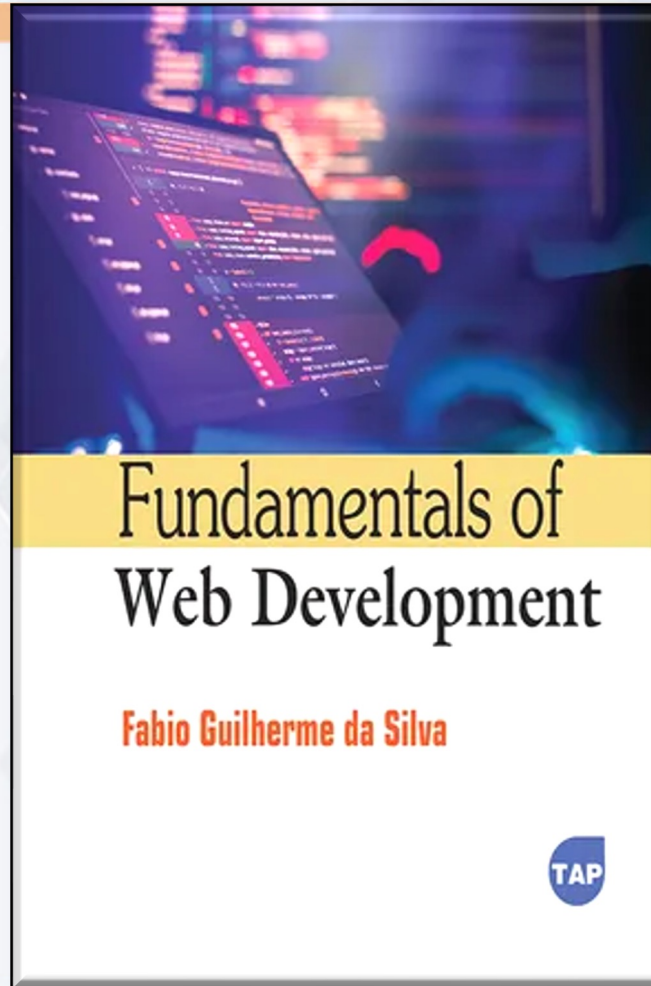
Nastaran Nazar Zadeh
Toronto Academic Press, 2025
eBook ISBN 9781779567086

This book presents a comprehensive understanding of the fundamental concepts, principles, and technologies that underpin modern computer networks. It covers a wide range of topics including network architecture, protocols, and standards; data communication; network security; and emerging technologies. The content is structured to guide readers from basic concepts to more advanced topics, ensuring a thorough grasp of both theoretical and practical aspects of computer networking. Case studies and real-world examples are included to illustrate the application of concepts in various networking scenarios.

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Fundamentals of Web Development

Fabio Guilherme da Silva
Toronto Academic Press, 2025
eBook ISBN 9781779567109



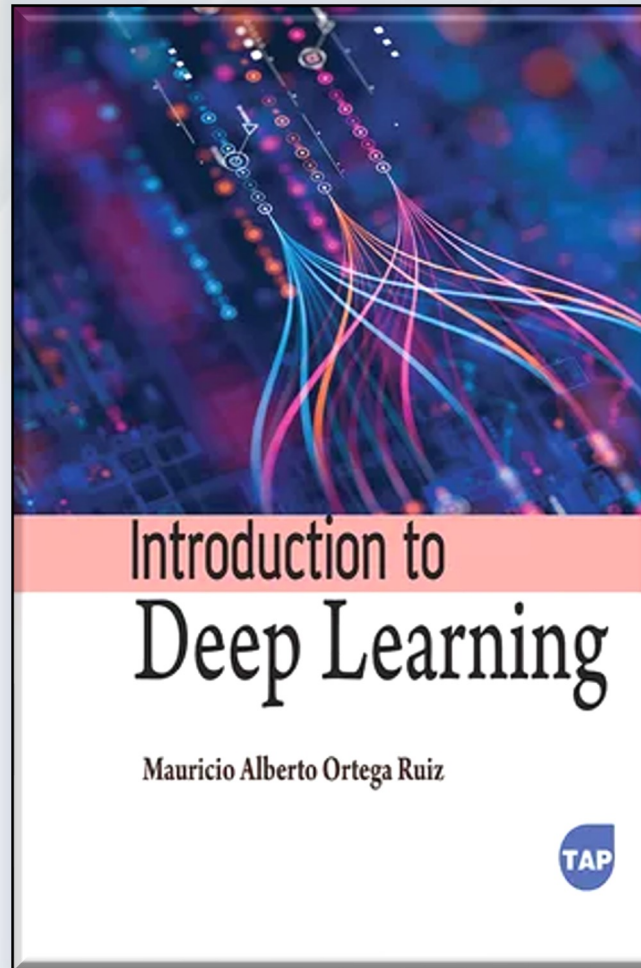
This book aims to equip readers with the essential skills and knowledge required to design and develop modern, responsive websites. It covers key topics such as HTML, CSS, JavaScript, and server-side programming, as well as contemporary frameworks and tools. The content is structured to take readers from the basics of web design to more advanced topics such as web accessibility, performance optimization, and security. Practical projects and real-world case studies are included to provide hands-on experience and to demonstrate best practices in web development.

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Introduction to Deep Learning

Mauricio Alberto Ortega Ruiz
Toronto Academic Press, 2025
eBook ISBN 9781779567161



https://www.perlego.com/book/4933882/introduction-to-deep-learning-pdf?queryID=077470f079f347343486d4d5a1c994ea&index=prod_BOOKS&gridPosition=1&searchType=title

This book is designed to provide a comprehensive introduction to the field of deep learning, covering its foundational principles, techniques, and applications. It covers topics such as neural networks, convolutional networks, recurrent networks, and deep reinforcement learning. The content emphasizes both the theoretical concepts and practical implementations of deep learning models, providing insights into how these models are trained and applied to solve complex problems. Practical examples and hands-on exercises are included to help readers develop a solid understanding of deep learning techniques and their applications in various fields.

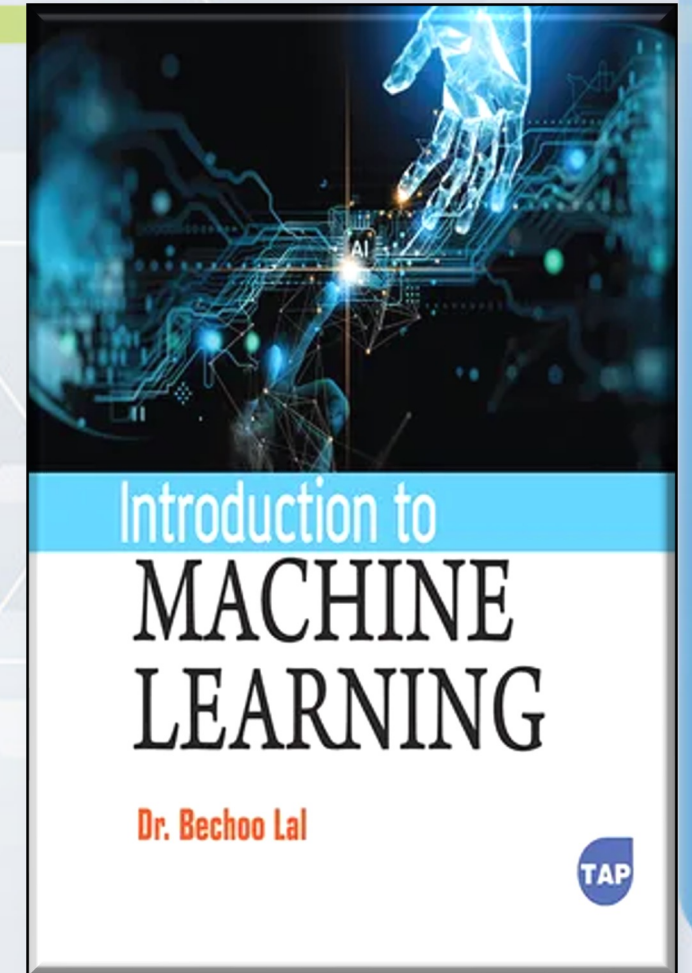
Introduction to Machine Learning

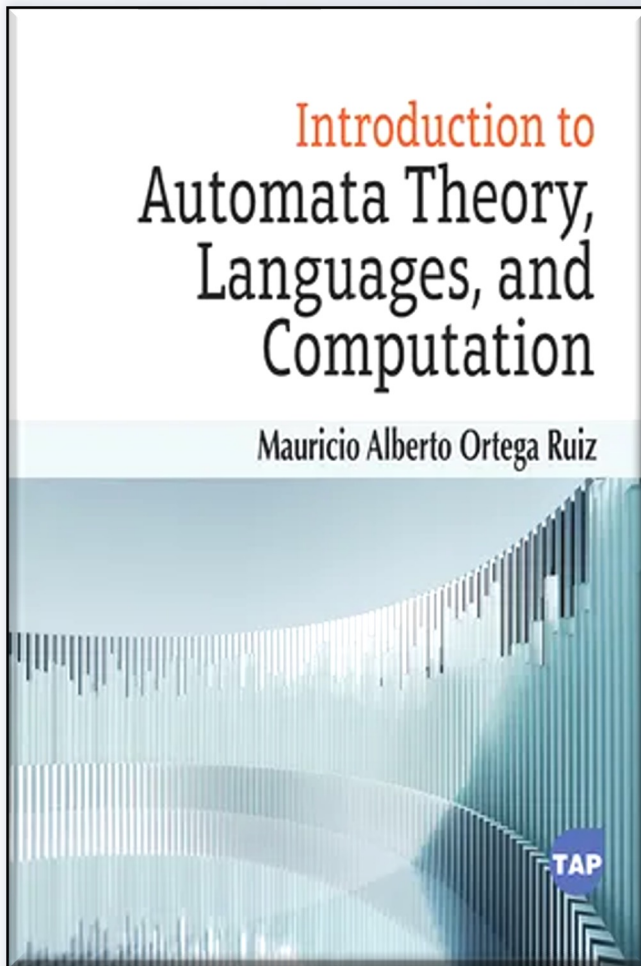
Dr. Bechoo Lal
Toronto Academic Press, 2025
eBook ISBN 9781779567178



This book is a comprehensive introduction to the principles and techniques of machine learning. It covers key topics such as supervised and unsupervised learning, neural networks, decision trees, support vector machines, and clustering algorithms. The content is structured to guide readers from basic concepts to more advanced topics, ensuring a thorough understanding of both theoretical foundations and practical applications. Real-world examples, case studies, and hands-on exercises are included to illustrate the application of machine learning techniques in various domains such as finance, healthcare, and technology.

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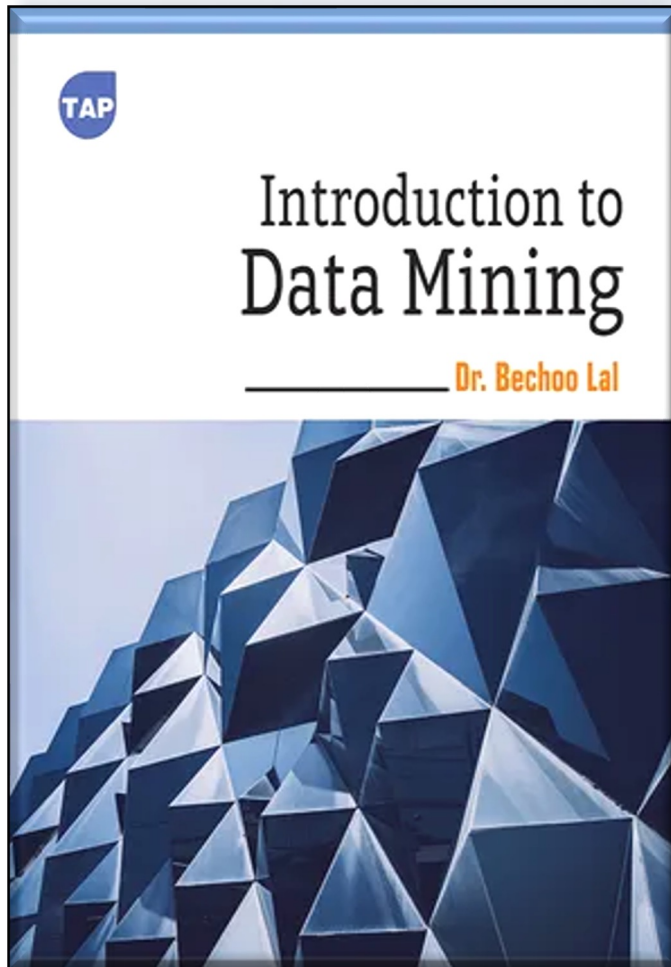
Introduction to Automata Theory, Languages, and Computation

Mauricio Alberto Ortega Ruiz
Toronto Academic Press, 2025
eBook ISBN 9781779567185

The aim of this book is to provide a comprehensive foundation in the principles of automata theory, formal languages, and computational theory. This book covers essential topics such as finite automata, regular languages, context-free grammars, Turing machines, and decidability. Through theoretical concepts and practical applications, it equips students with the tools to understand and analyze the fundamental aspects of computation and its applications in computer science.

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Introduction to Data Mining

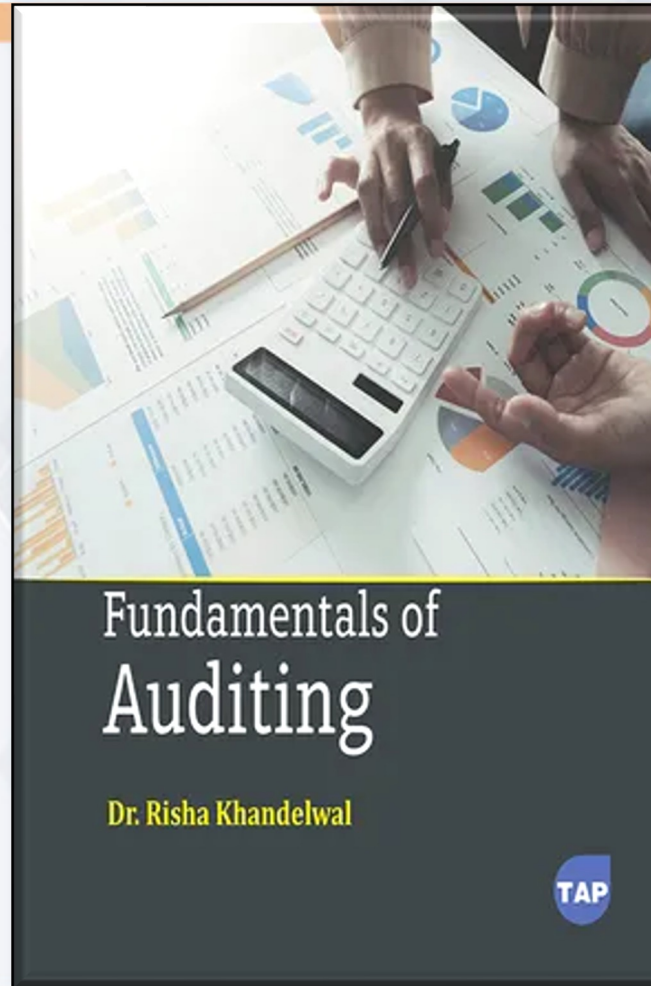
Dr. Bechoo Lal
Toronto Academic Press, 2025
eBook ISBN 9781779567192

This book seeks to familiarize students with the fundamental concepts and techniques used in the field of data mining. The content spans a wide range of topics including data preprocessing, classification, clustering, association analysis, and anomaly detection. By combining theoretical insights with practical examples, the book aims to equip students with the skills necessary to extract meaningful patterns and knowledge from large datasets, thus preparing them for challenges in data-driven industries.

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Fundamentals of Auditing

Dr. Risha Khandelwal
Toronto Academic Press, 2025
eBook ISBN 9781779567284



The aim of Fundamentals of Auditing is to provide students with a thorough understanding of auditing principles and practices. Topics include audit planning, risk assessment, internal controls, audit evidence, and audit reporting. The book combines theoretical foundations with practical approaches to auditing, preparing students for professional roles in auditing and assurance services within the accounting and finance industries.

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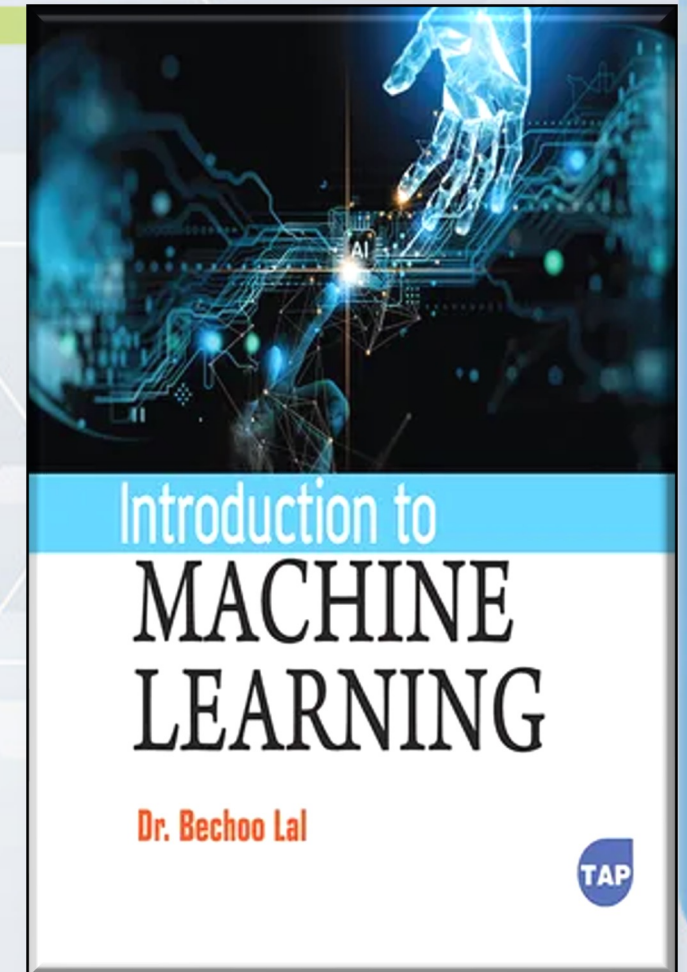
Introduction to Machine Learning

Dr. Bechoo Lal
Toronto Academic Press, 2025
eBook ISBN 9781779567178



This book is a comprehensive introduction to the principles and techniques of machine learning. It covers key topics such as supervised and unsupervised learning, neural networks, decision trees, support vector machines, and clustering algorithms. The content is structured to guide readers from basic concepts to more advanced topics, ensuring a thorough understanding of both theoretical foundations and practical applications. Real-world examples, case studies, and hands-on exercises are included to illustrate the application of machine learning techniques in various domains such as finance, healthcare, and technology.

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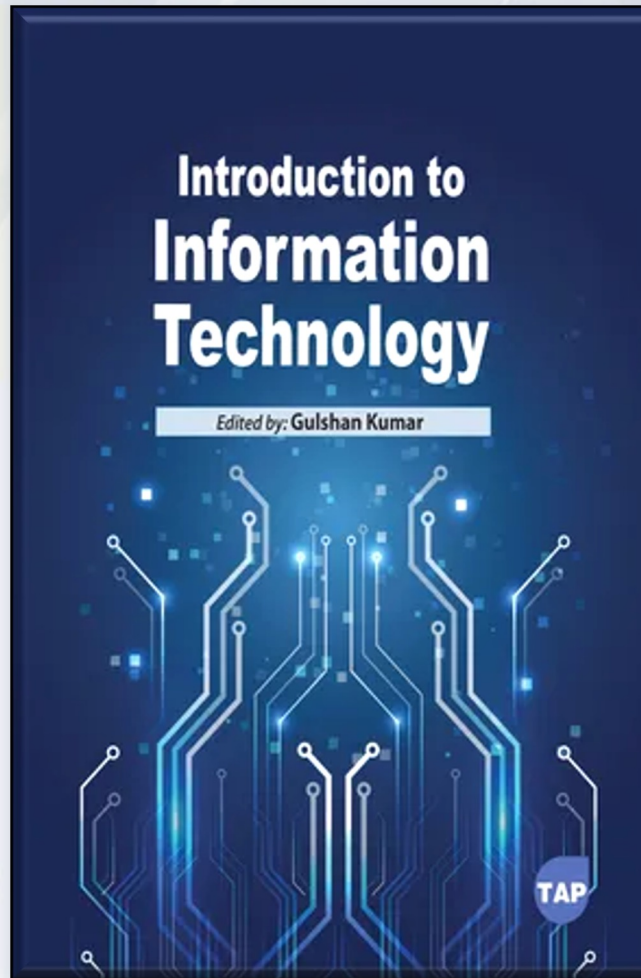


Introduction to Information Technology

Gulshan Kumar

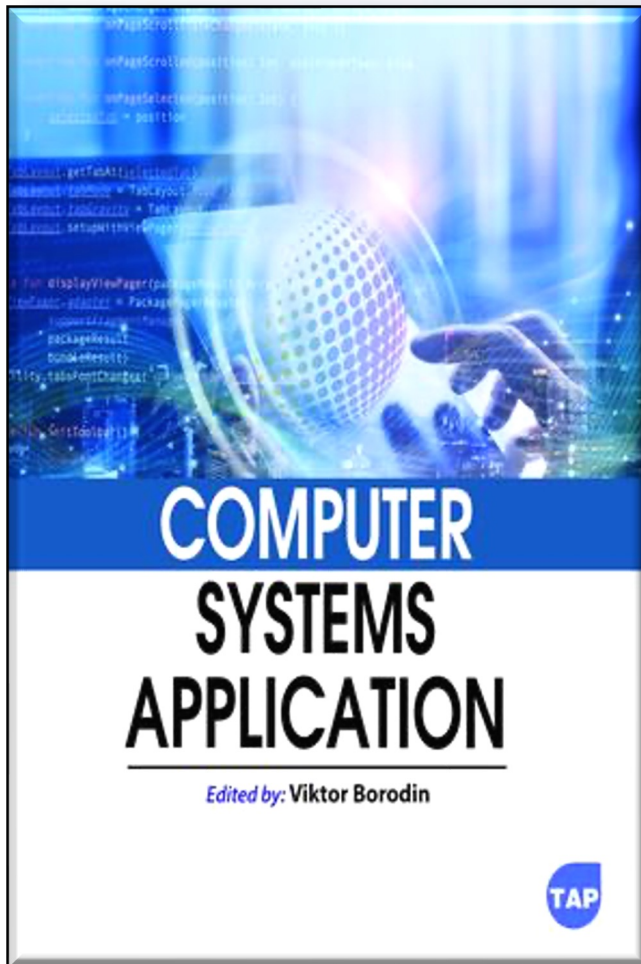
Toronto Academic Press, 2025

eBook ISBN 9781779561190



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Information Technology (IT) refers to the use of computers, software, and telecommunications equipment to store, retrieve, transmit, and manipulate data, often in the context of business or other organizational operations. This book presents the fundamentals of information technology. The book aims to provide readers with a thorough understanding of the basic concepts and principles of information technology. It is an ideal textbook for students of computer science and related fields, as well as a useful reference for professionals in the industry. The book emphasizes the practical applications of information technology, providing real-world examples and case studies to illustrate key concepts. It is written in a clear and concise style, making it accessible to readers with varying levels of technical expertise.

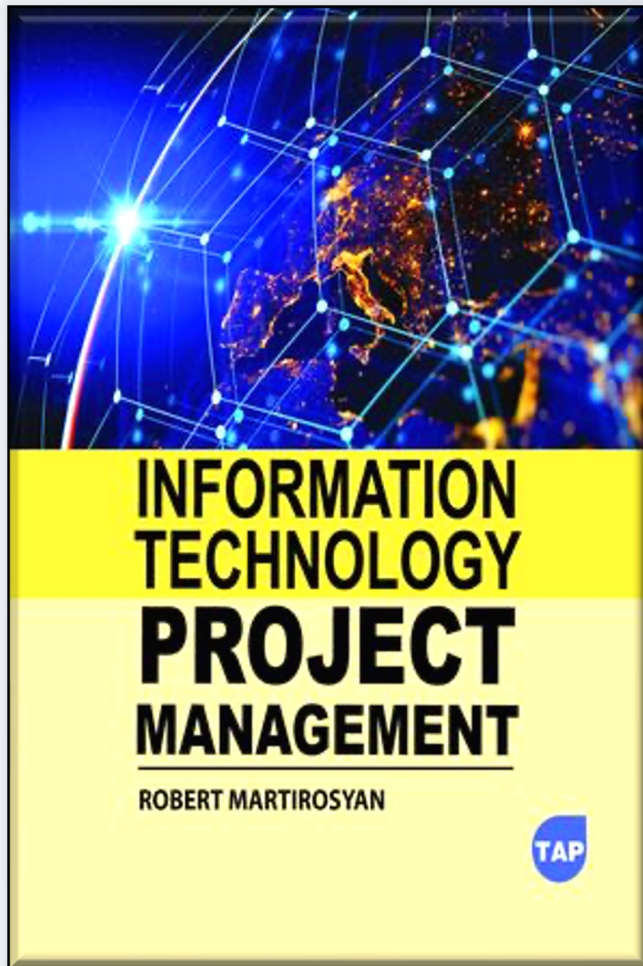


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Computer Systems Application

Viktor Borodin
Toronto Academic Press, 2025
eBook ISBN 9781779561206

Computer systems application refers to the utilization of software and hardware components to perform various tasks and activities such as data processing, communication, entertainment, and business operations. This textbook covers the fundamental concepts of computer systems and their applications in various fields. It provides an in-depth understanding of computer architecture, operating systems, networking, and database management systems. With its practical approach, Computer Systems Application equips readers with the knowledge and skills needed to design, develop, and implement computer-based systems. It serves as a valuable resource for students of computer science, software engineering, and related fields, as well as professionals in the technology industry who wish to enhance their knowledge and skills.



Information Technology Project Management

Robert Martirosyan
Toronto Academic Press, 2025
eBook ISBN 9781779561596

This text provides a comprehensive guide to managing IT projects effectively. It covers topics such as project planning, risk management, team building, communication, and project evaluation. The book is written to help IT professionals navigate the challenges of project management and develop effective strategies to deliver successful IT projects. Whether you are a project manager or a member of an IT project team, this book is an essential resource for anyone looking to succeed in the field of IT project management.

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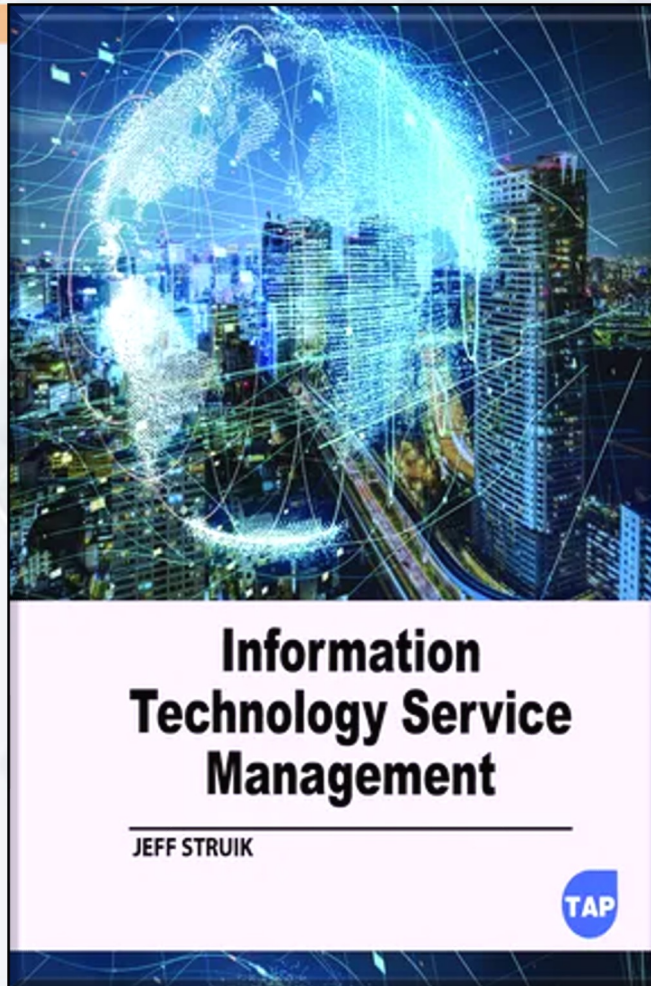
Information Technology Service Management

Jeff Struik

Toronto Academic Press, 2025

eBook ISBN 9781779561602

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This text is a comprehensive guide to the management of IT services in organizations. It covers topics such as service strategy, service design, service transition, service operation, and continual service improvement. The book is designed to help IT professionals develop effective strategies for delivering high-quality IT services that meet the needs of their organizations. It is an essential resource for anyone involved in IT service management, including IT managers, service desk staff, and IT consultants.

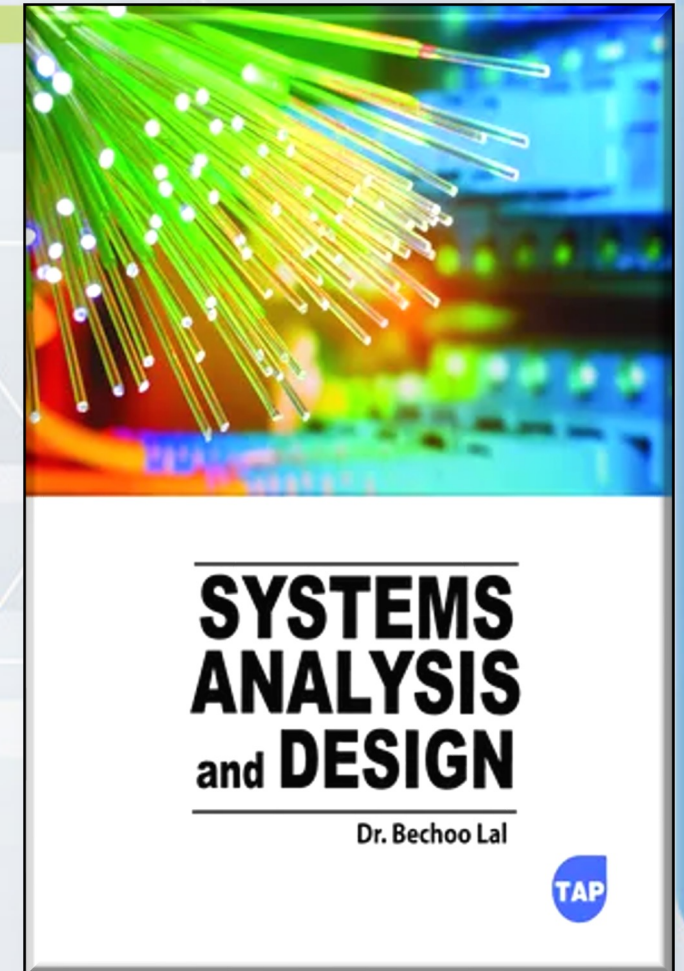
Systems Analysis and Design

Dr. Bechoo Lal
Toronto Academic Press, 2025
eBook ISBN 9781779561619



This book explores the process of developing effective and efficient information systems. It covers topics such as requirements gathering, system design, implementation, and maintenance. The book provides a structured approach to systems development and emphasizes the importance of understanding business processes and user needs. This book is a valuable resource for anyone involved in systems analysis and design.

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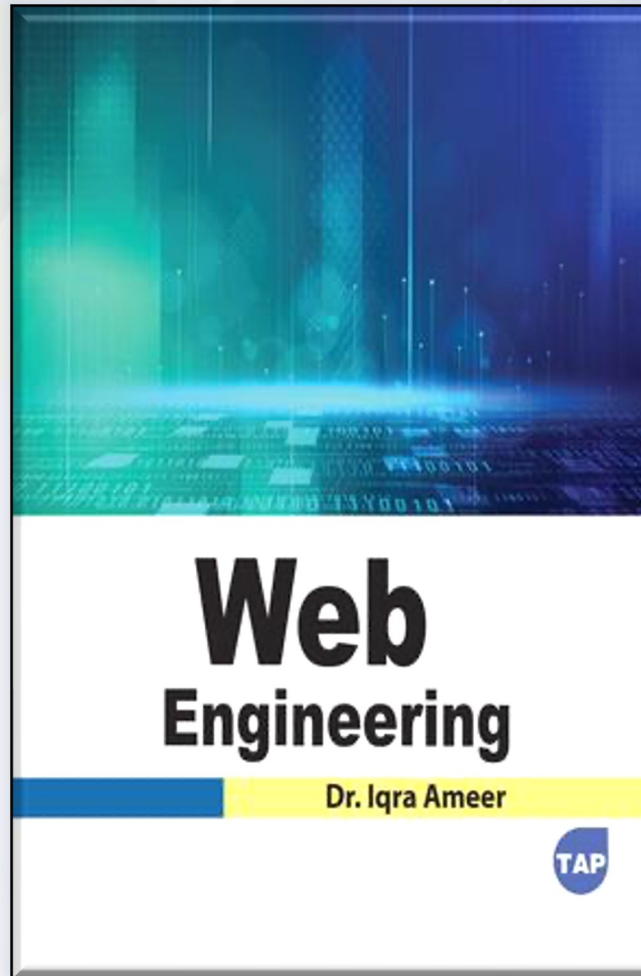


Web Engineering

Iqra Ameer

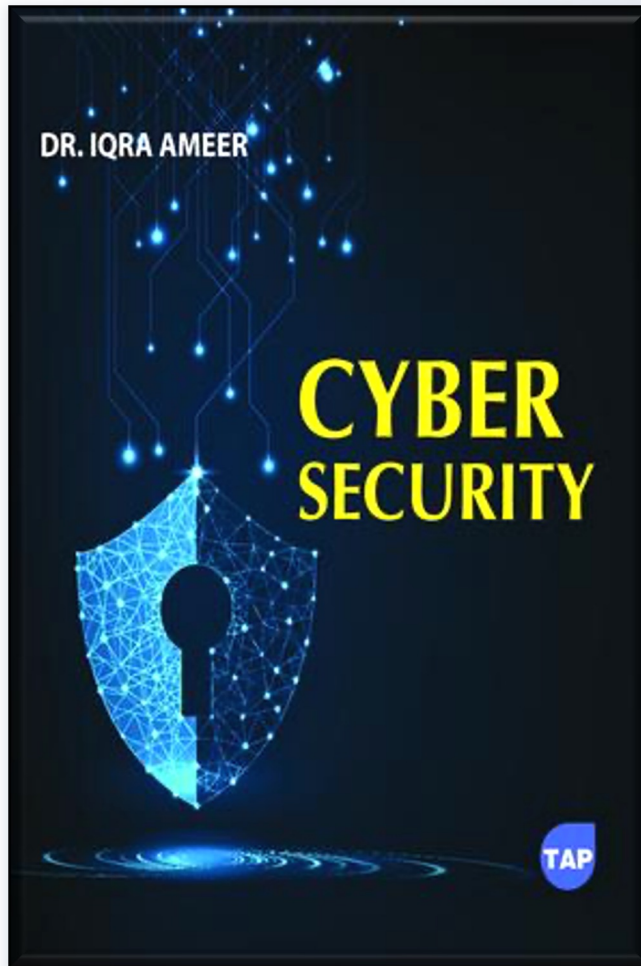
Toronto Academic Press, 2025

eBook ISBN 9781779561626



This textbook focuses on the development of large-scale web-based applications, websites, and software systems. It covers various topics such as web design, web programming, web testing, and web project management. The book is an essential resource for software engineers, web developers, project managers, and anyone involved in the development of web-based applications. It provides readers with a comprehensive understanding of the process of web engineering and the skills required to develop high-quality web-based systems.

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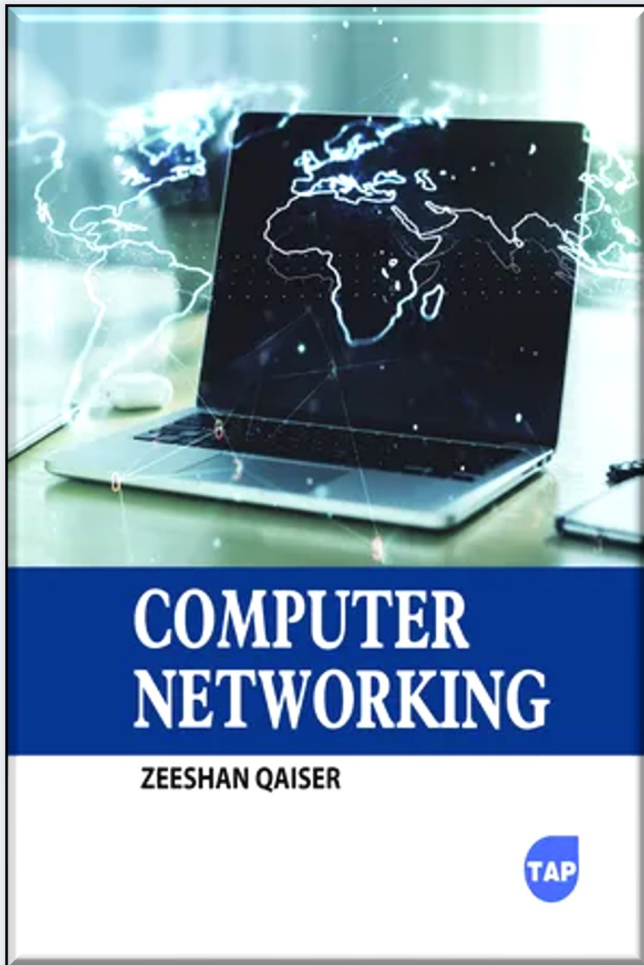


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Cyber Security

Dr. Iqra Ameer
Toronto Academic Press, 2025
eBook ISBN 9781779561633

This text provides an in-depth overview of the ever-evolving field of cybersecurity. It covers a range of topics, including information security, network security, cryptography, and ethical hacking. The book is designed to help individuals and organizations understand the threats and vulnerabilities that exist in the digital world, and to develop strategies to protect themselves from cyber-attacks. Whether you are an IT professional, a business owner, or just someone interested in the topic, this book is an essential resource for anyone looking to enhance their understanding of cybersecurity.



Computer Networking

Zeeshan Qaiser
Toronto Academic Press, 2025
eBook ISBN 9781779561671

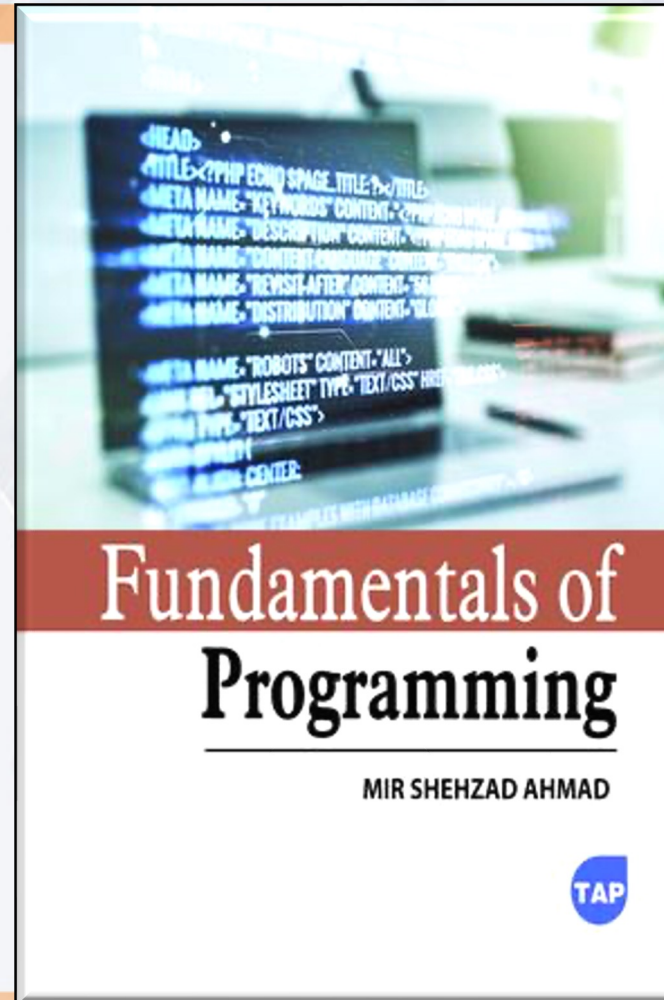
This text explores the fundamentals of networking technology and its applications in modern computing. The book covers topics such as network architectures, protocols, security, and wireless networking. It is designed to provide readers with a comprehensive understanding of how computer networks function and how they can be configured and managed effectively. Whether you are a student, a professional, or an enthusiast in the field of computer networking, this book is an essential resource for gaining knowledge and expertise in this dynamic and rapidly evolving field.

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Fundamentals of Programming

Mir Shehzad Ahmad
Toronto Academic Press, 2025
eBook ISBN 9781779561695

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This text is a comprehensive guide to computer programming, covering the basic principles, concepts, and techniques of programming. The book provides a detailed overview of programming languages, algorithms, data structures, and software development methodologies. With clear explanations and practical examples, this book is an excellent starting point for anyone interested in learning programming fundamentals. It is an essential resource for students and professionals who want to develop their programming skills and enhance their understanding of computer science.

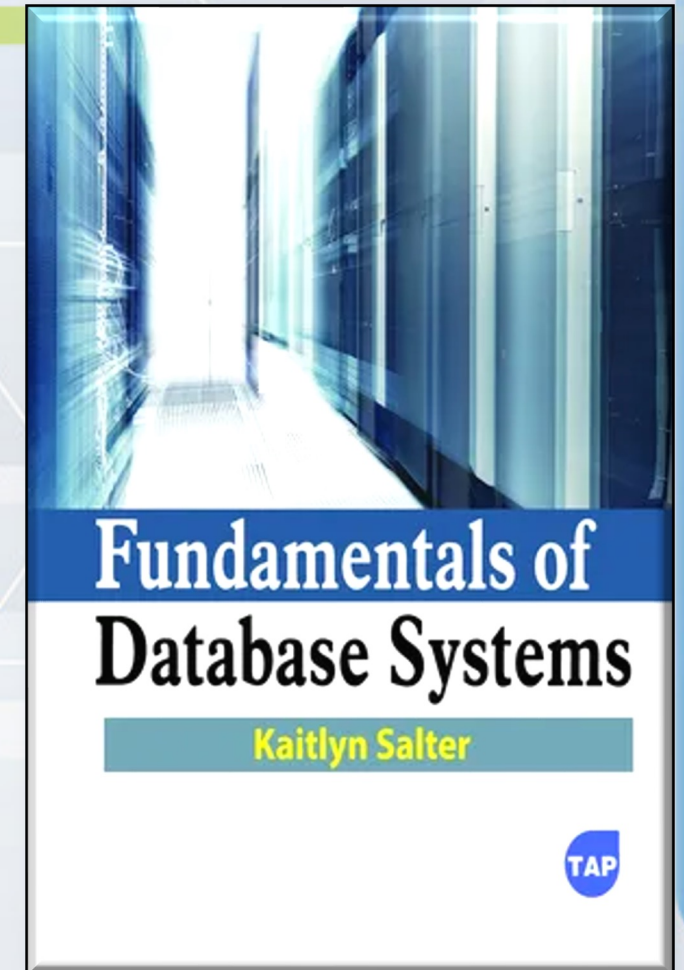
Fundamentals of Database Systems

Kaitlyn Salter
Toronto Academic Press, 2025
eBook ISBN 9781779561701



This book covers various aspects of database systems such as data modeling, relational databases, SQL programming, database design, and database administration. It is an essential resource for students and professionals in computer science and information technology who are interested in developing their knowledge of database systems. The book is designed to provide a clear and concise overview of the fundamentals of database systems, making it an excellent starting point for anyone looking to enter the field.

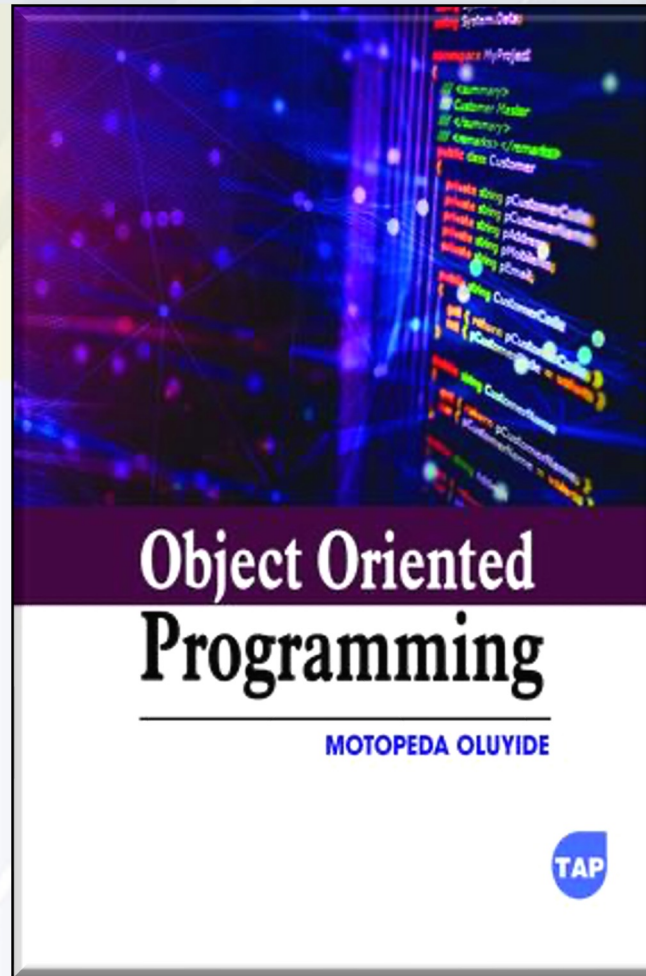
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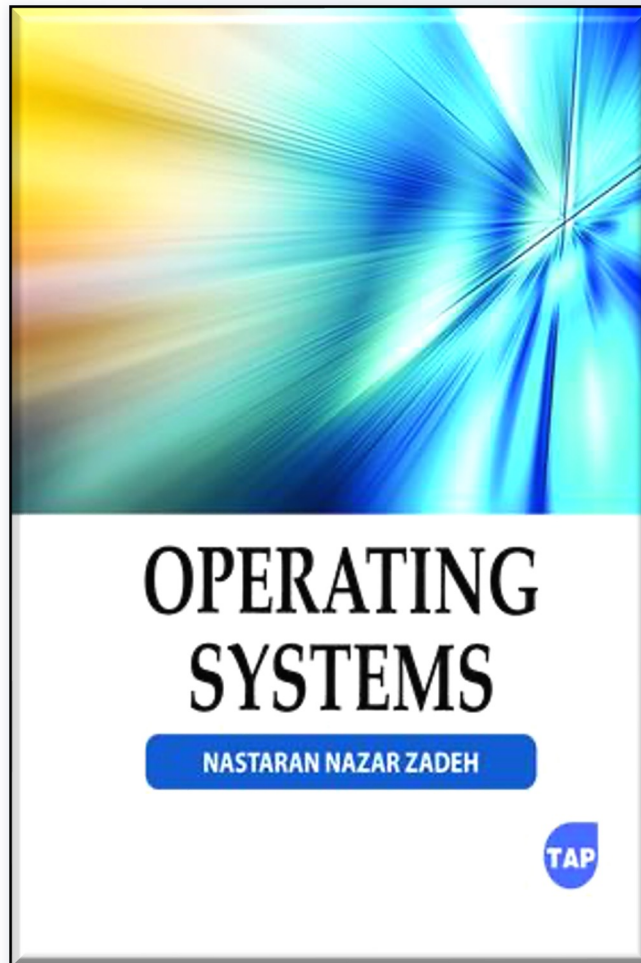
Object Oriented Programming

Motopeda Oluyide
Toronto Academic Press, 2025
eBook ISBN 9781779561718



This text introduces readers to the principles and concepts of object-oriented programming. It covers topics such as classes, objects, inheritance, encapsulation, and polymorphism. The book provides a hands-on approach to learning programming and includes examples in various programming languages. This book is a valuable resource for understanding the fundamental principles of object-oriented programming and applying them to real-world problems.

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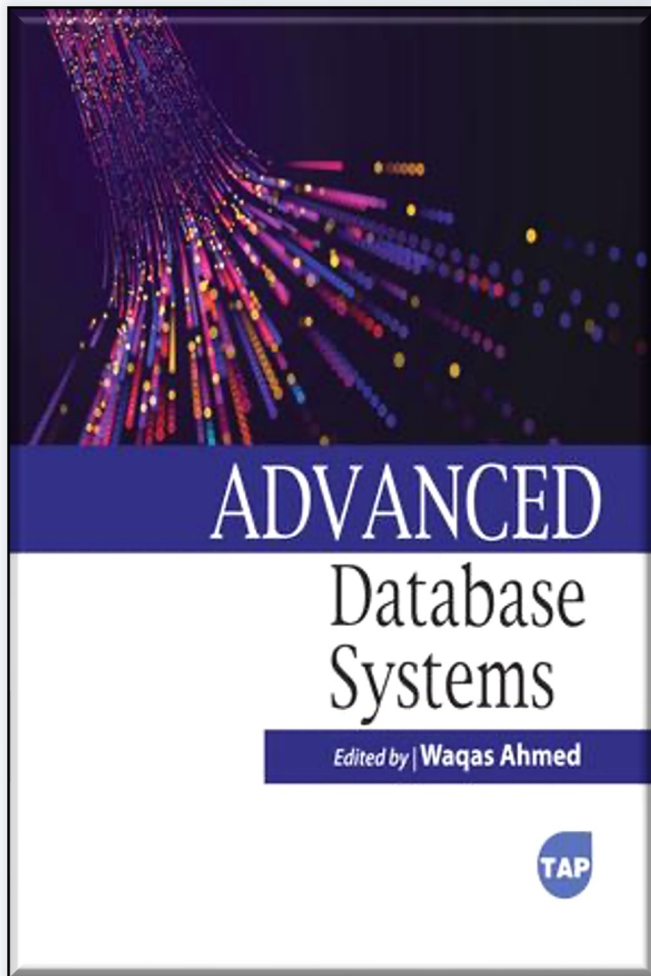


Operating Systems

Nastaran Nazar Zadeh
Toronto Academic Press, 2025
eBook ISBN 9781779561725

This book provides a comprehensive overview of the core principles and functionality of computer operating systems. The book covers various topics, including process management, memory management, file systems, device management, and security. It is written to provide readers with a deeper understanding of how operating systems work and how they can be used to optimize computer performance. This book is an essential resource for understanding the intricacies of operating systems.

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Advanced Database Systems

Waqas Ahmed
Toronto Academic Press, 2025
eBook ISBN 9781779561732

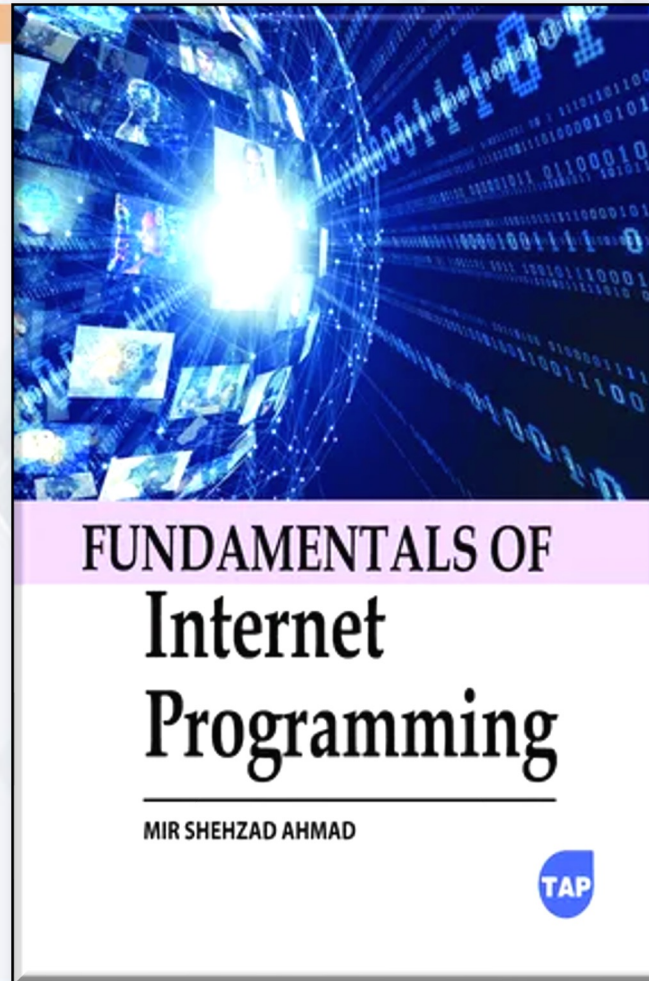
This book provides an in-depth study of the advanced concepts and technologies in database systems. It covers topics such as distributed databases, object-oriented databases, data mining, and big data analytics. The book is written for students and professionals in the field of computer science who want to enhance their knowledge and skills in advanced database technologies. This book will provide you with a solid understanding of the latest developments in database systems and their applications.

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Fundamentals of Internet Programming

Mir Shehzad Ahmad
Toronto Academic Press, 2025
eBook ISBN 9781779561749

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This text introduces readers to the basic principles of programming for the internet. It covers essential topics such as web development, client-server architecture, database management, and security. The book is written for beginners who have little to no experience in programming and want to learn how to develop websites and web applications. With clear explanations and practical examples, this book is an excellent starting point for anyone interested in internet programming.

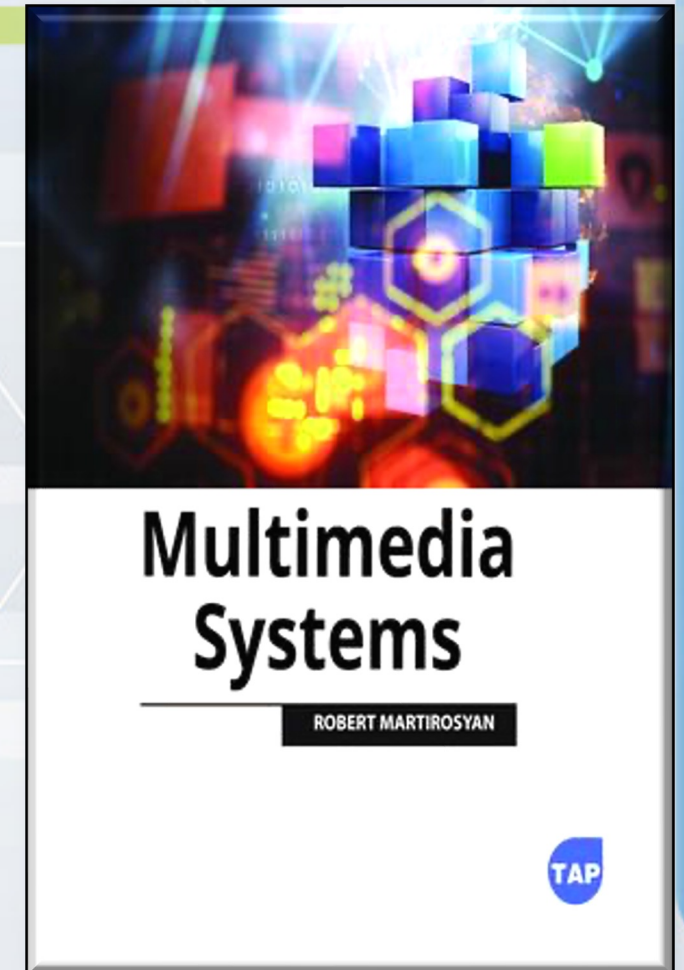
Multimedia Systems

Robert Martirosyan
Toronto Academic Press, 2025
eBook ISBN 9781779561756



This text covers the design, development, and implementation of multimedia applications and systems. The book explores various topics such as multimedia hardware and software, digital media representation and compression, multimedia communication, and multimedia databases. It is an essential resource for students and professionals in the field of multimedia, providing a thorough understanding of the principles and practices of multimedia systems. This book will equip you with the knowledge and skills needed to create and manage multimedia systems in a rapidly evolving technological landscape.

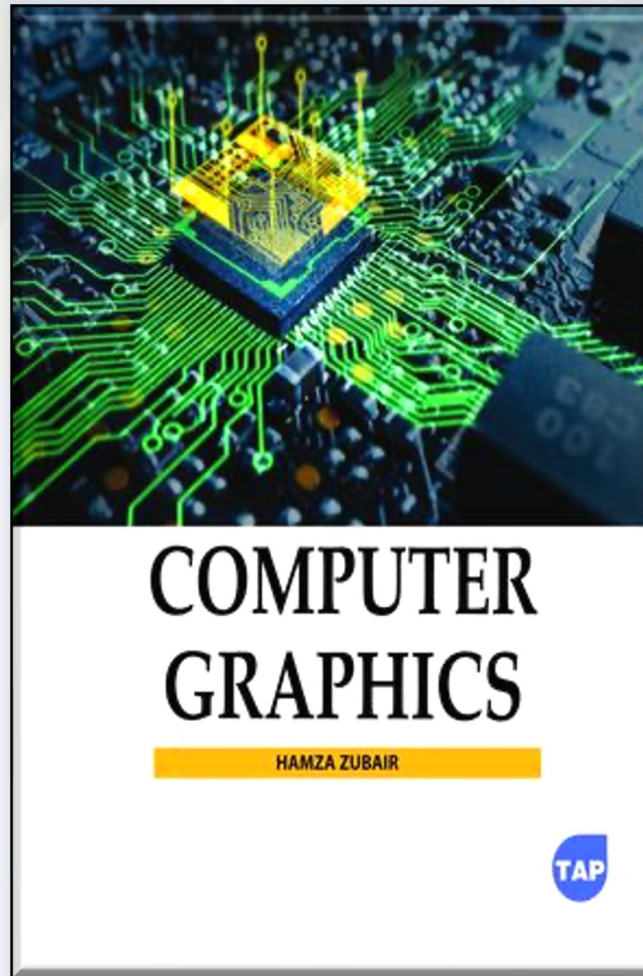
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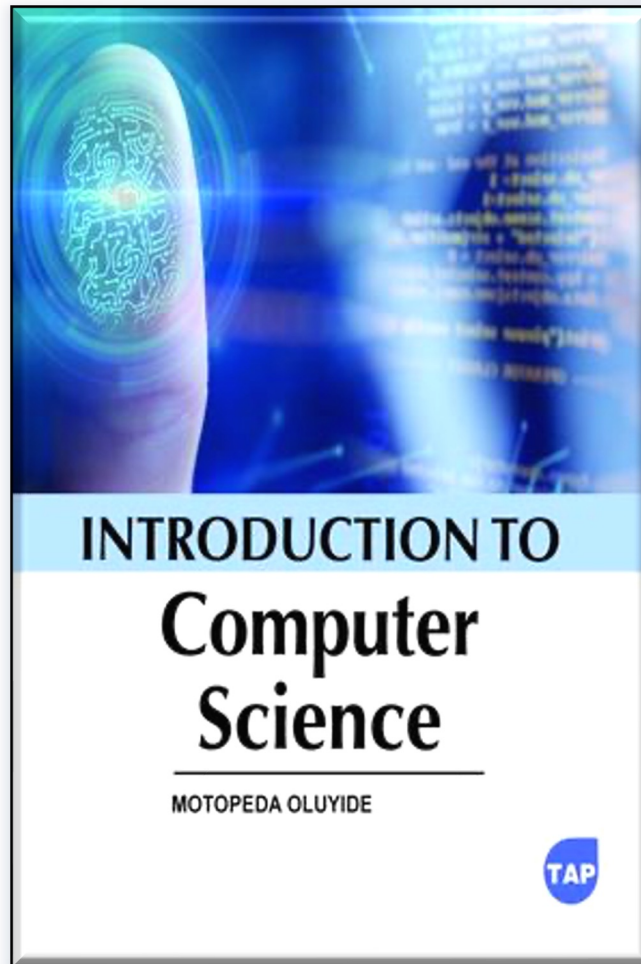
Computer Graphics

Hamza Zubair
Toronto Academic Press, 2025
eBook ISBN 9781779561763



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This book introduces readers to the world of digital art and design. It explores the principles, techniques, and tools used to create images and animations on a computer. The book covers topics such as 2D and 3D graphics, rendering, shading, and lighting. It is an essential resource for students, artists, and designers looking to expand their knowledge and skills in the field of computer graphics. With the growing demand for digital media, this book is a valuable asset for anyone interested in creating visually stunning graphics and animations.

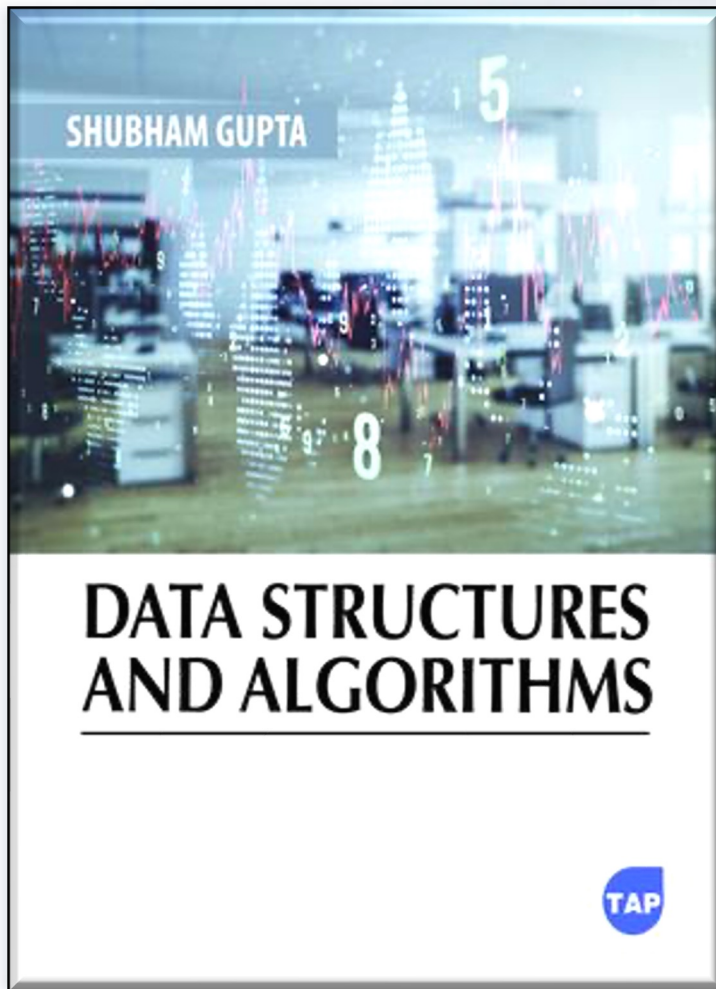


Introduction to Computer Science

Motopeda Oluyide
Toronto Academic Press, 2025
eBook ISBN 9781779561770

This text is a comprehensive guide to the basic principles and concepts of computer science. The book covers a wide range of topics, from computer hardware and software to programming languages and algorithms. It is written to provide readers with a solid foundation in computer science, regardless of their background or level of experience. The book is an excellent resource for anyone interested in learning about the field of computer science, including students, professionals, and hobbyists.

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Data Structures and Algorithms

Shubham Gupta
Toronto Academic Press, 2025
eBook ISBN 9781779561787

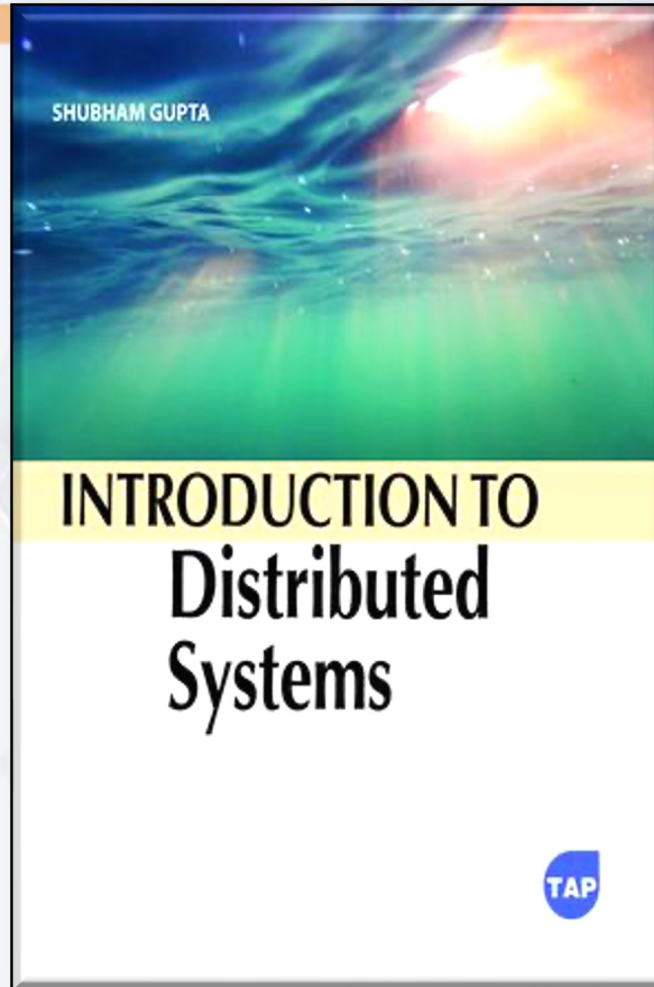
This book introduces the fundamental concepts of data structures and algorithms. It covers topics such as arrays, linked lists, stacks, queues, trees, graphs, sorting, searching, and hashing. The book is written to help students and professionals in computer science and programming understand how to use data structures and algorithms to solve complex problems efficiently. Whether you are a beginner or an experienced programmer, this book provides valuable insights into the world of data structures and algorithms.

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Introduction to Distributed Systems

Shubham Gupta
Toronto Academic Press, 2025
eBook ISBN 9781779561794

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This book provides a comprehensive overview of the fundamental principles, concepts, and technologies of distributed computing. It covers various topics including the architecture of distributed systems, communication protocols, distributed file systems, distributed databases, and distributed algorithms. The book is written to help readers understand the complexities of distributed systems and how to design and develop distributed applications that are reliable, scalable, and efficient. This book is an essential text for understanding the concepts and principles of distributed systems.

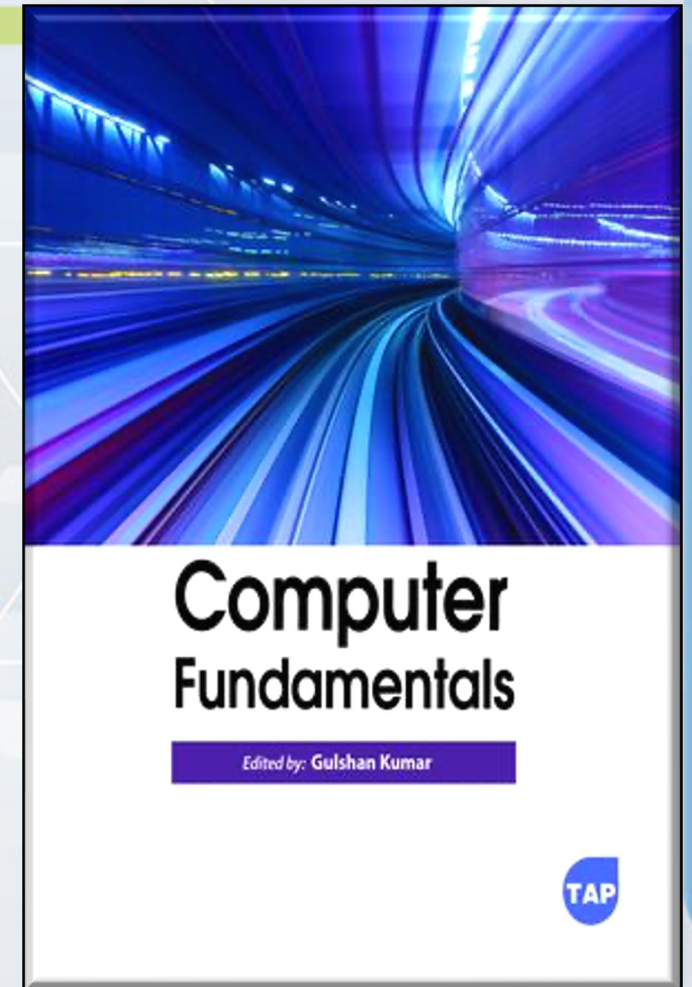
Computer Fundamentals

Gulshan Kumar
Toronto Academic Press, 2025
eBook ISBN 9781779561824



Computer Fundamentals is an introductory book that provides a comprehensive understanding of the basic principles and concepts of computers. The book covers a wide range of topics, including computer hardware, software, operating systems, and networks. It also explores the evolution of computers and their impact on society. The book is written for beginners with little or no prior knowledge of computers and is an essential resource for anyone looking to develop a fundamental understanding of computer technology.

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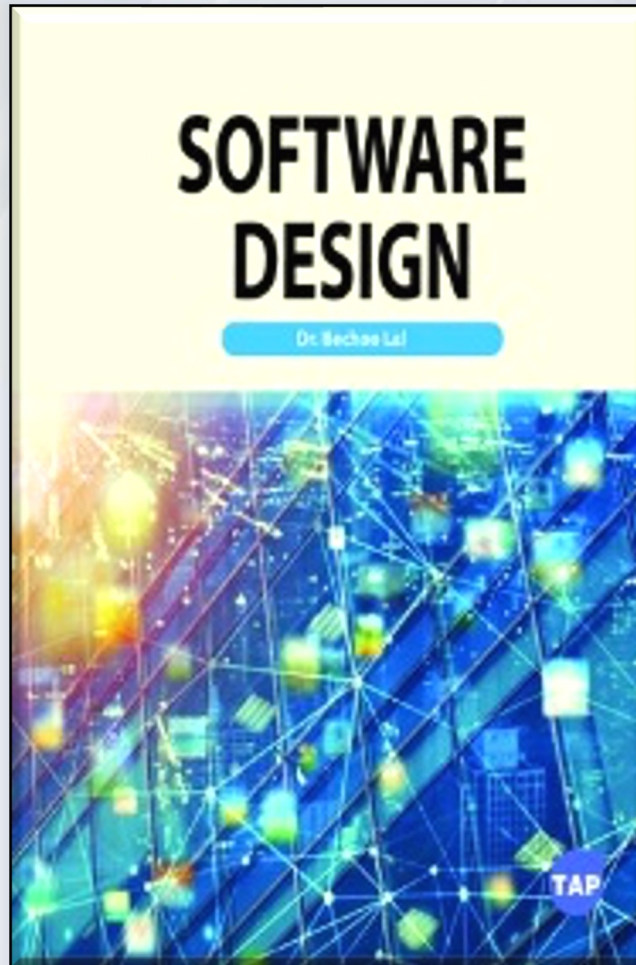


Software Design

Dr. Bechoo Lal

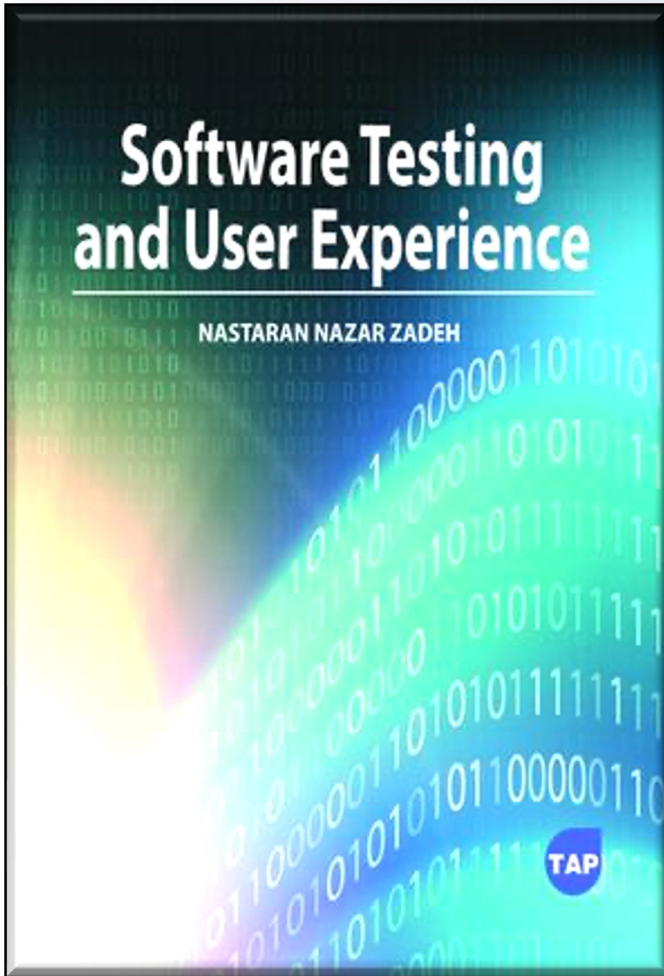
Toronto Academic Press, 2025

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This book is a comprehensive guide to the principles and practices of designing software systems. It covers topics such as software architecture, design patterns, object-oriented design, and software development methodologies. The book is intended for software developers, architects, and project managers who want to learn how to design effective software systems. By following the guidelines provided in this book, readers can create software that is maintainable, scalable, and adaptable to changing requirements.



Software Testing and User Experience

Nastaran Nazar Zadeh
Toronto Academic Press, 2025
eBook ISBN 9781779561992

This book explores the relationship between software testing and user experience. It provides an overview of the importance of user experience in software testing and the impact it has on software development. The book covers various techniques and strategies for testing software to ensure optimal user experience, including usability testing, accessibility testing, and performance testing. Whether you are a software developer, tester, or UX designer, this book is a valuable resource for improving the quality and user-friendliness of your software applications.

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DATA CENTER MANAGEMENT

NASTARAN NAZAR ZADEH



Data Centre Management

Nastaran Nazar Zadeh
Toronto Academic Press, 2025
eBook ISBN 9781779562005

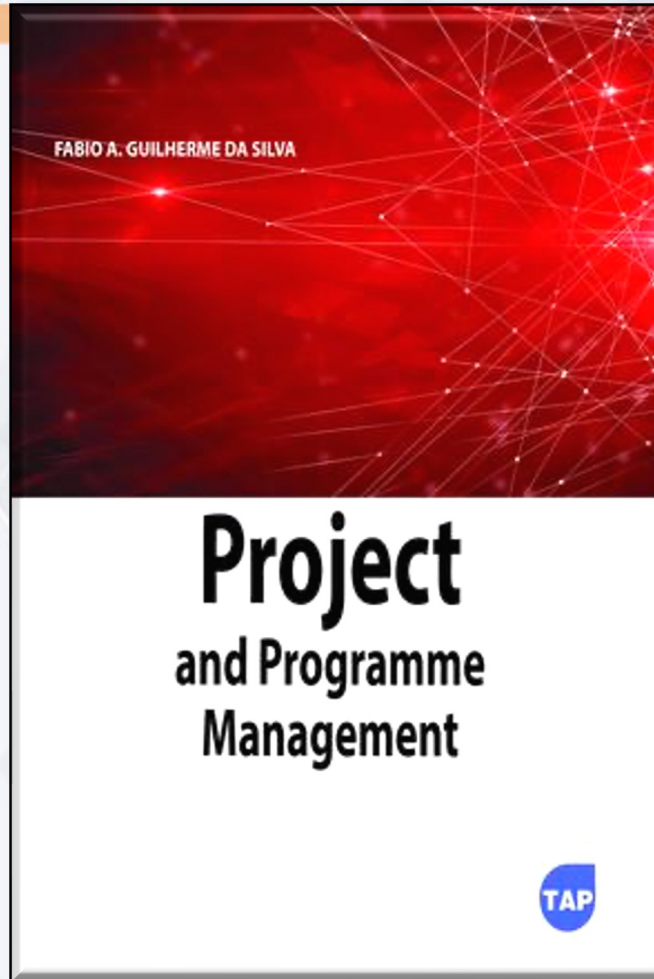
This text provides an overview of the principles and practices involved in managing and operating data centers. It covers topics such as data center design, infrastructure management, virtualization, cloud computing, and security. The book is intended for IT professionals and data center managers who are responsible for the operation and maintenance of data centers. It provides valuable insights and best practices for optimizing data center performance, reliability, and efficiency.

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Project and Programme Management

Fabio A. Guilherme da Silva
Toronto Academic Press, 2025
9781779562012

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This book covers the principles, tools, and techniques of managing projects and programs effectively. It provides practical guidance for planning, executing, and controlling projects and programs, including risk management, stakeholder engagement, and quality assurance. The book also explores the importance of leadership and communication skills for successful project and program management. This book is a valuable resource for an experienced project manager or a novice, improving the skills and achieving project success.

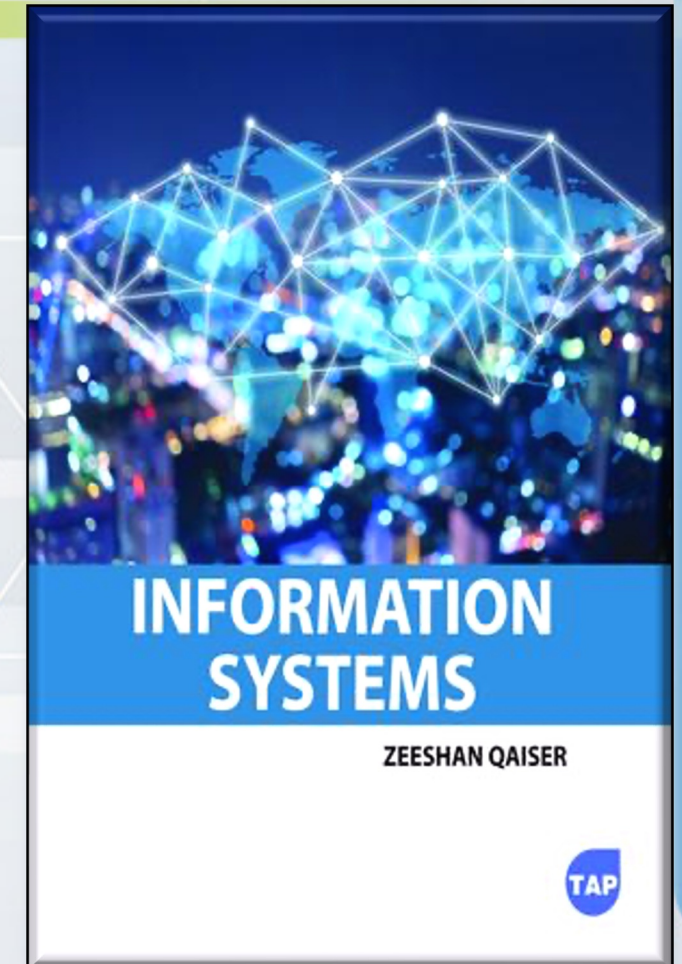
Information Systems

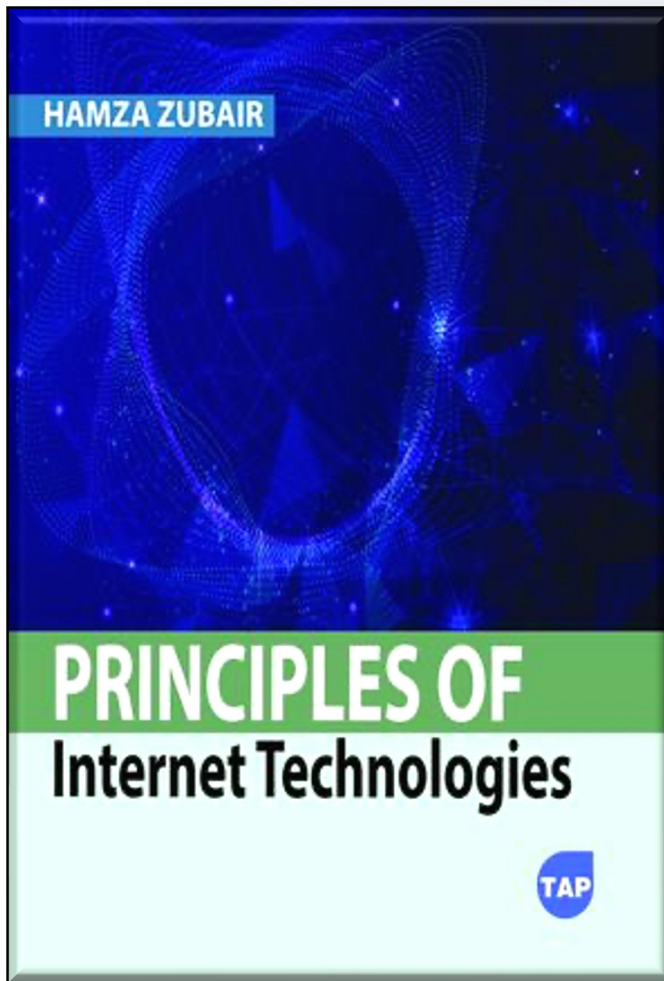
Zeeshan Qaiser
Toronto Academic Press, 2025
eBook ISBN 9781779562029



Information Systems is a comprehensive text to the design, development, and management of information systems. The book covers topics such as system analysis and design, database management, computer networks, security, and decision support systems. The book also explores emerging trends in information systems, such as cloud computing, big data, and artificial intelligence. It is written to help students and professionals understand how information systems can be used to support business operations and achieve strategic objectives.

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Principles of Internet Technologies

Hamza Zubair
Toronto Academic Press, 2025
eBook ISBN 9781779562036

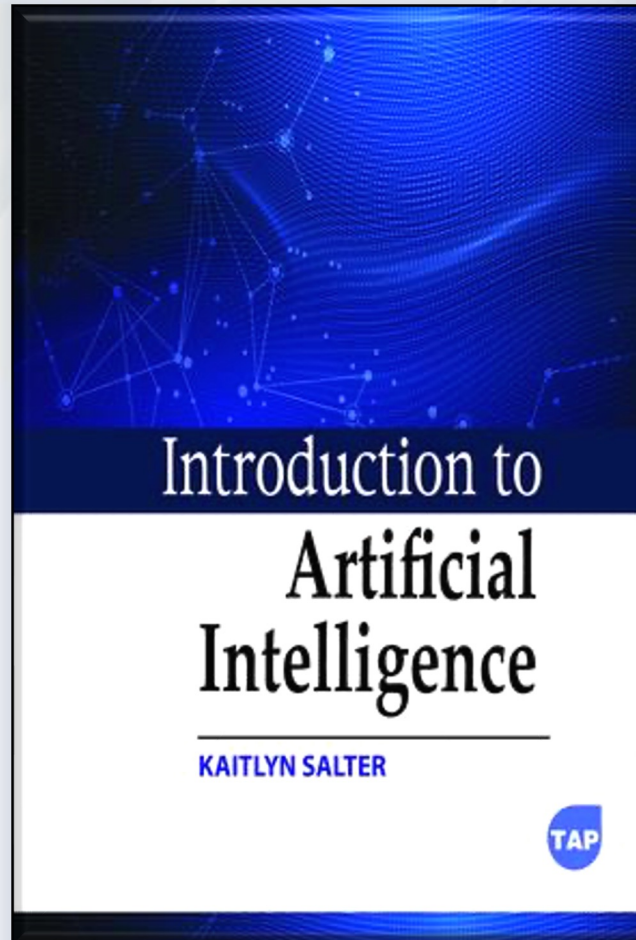
This book deals with the basic principles, concepts, and protocols that underpin the Internet. It provides an overview of the technologies used to build the Internet and how they work together to create a global network. The book covers topics such as web technologies, network protocols, security, and mobile computing. It is a valuable resource for anyone interested in understanding the technology behind the Internet and how it has evolved to become an essential part of modern life.

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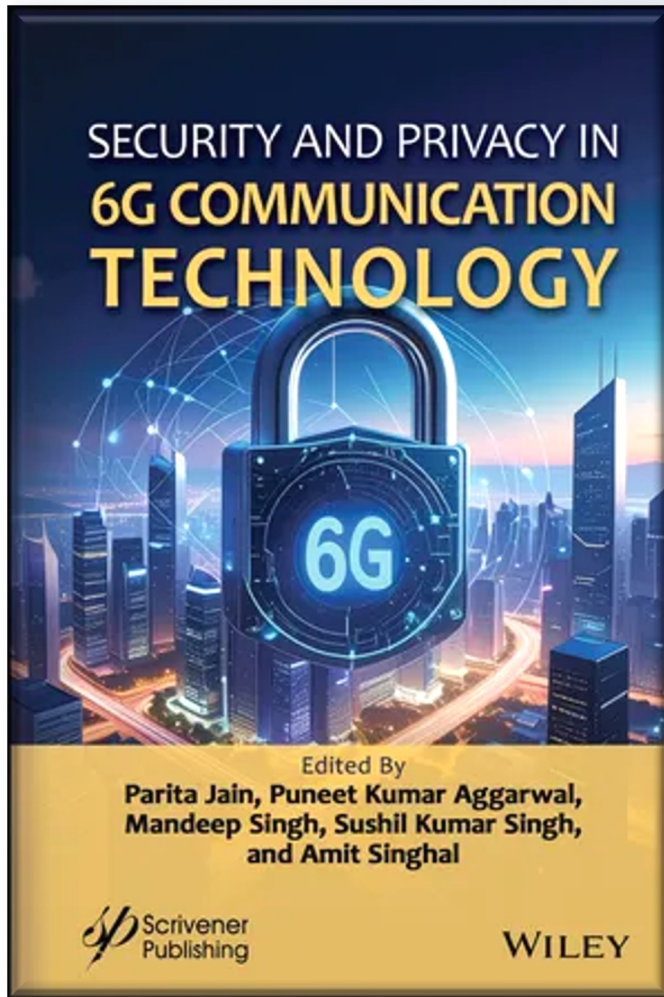
Introduction to Artificial Intelligence

Kaitlyn Salter
Toronto Academic Press, 2025
eBook ISBN 9781779562067



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This text explores the fundamental concepts and techniques of AI. It covers topics such as problem-solving, knowledge representation, natural language processing, machine learning, and robotics. The book is written to provide a comprehensive introduction to the field of AI, including its applications and ethical considerations. This book is an essential resource for a student, researcher, or practitioner in the field of AI gaining a solid understanding of this rapidly evolving field.



Security and Privacy in 6G Communication Technology

Parita Jain
Toronto Academic Press, 2025
eBook ISBN 9781800568631

The advancement from 5G to 6G communication represents a quantum leap in wireless technology, promising unprecedented speeds, ultra-low latency, and ubiquitous connectivity. As the industry embarks on this journey, it encounters a host of technical challenges, particularly in ensuring the security and privacy of data transmitted across these networks. The interconnected nature of 6G systems, combined with the proliferation of Internet of Things devices and the sheer volume of data exchanged, creates a fertile ground for cyber threats and privacy breaches.

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