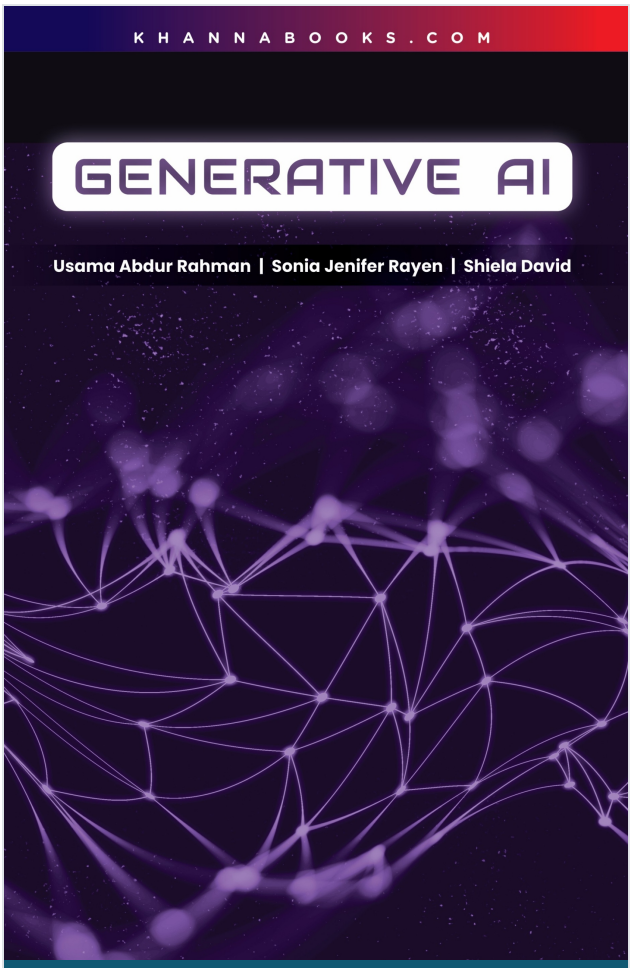


Sonia Jenifer Rayen, Shiela David, Usama Abdur Rahman

Generative AI

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Product Description

Generative AI (Gen AI) has rapidly evolved from a theoretical concept into a transformative technology capable of simulating human creativity, generating content, producing innovative ideas, and enabling autonomous decision-making. This book serves as a comprehensive and structured guide to understanding the foundations, architectures, applications, and future directions of Generative Artificial Intelligence. Designed for students, researchers, professionals, and technology enthusiasts, it provides both theoretical insights and practical perspectives on one of the most influential fields in modern computing.

The text begins by tracing the historical evolution of Artificial Intelligence, highlighting key milestones that shaped the development of machine learning and intelligent systems. It then builds a strong conceptual foundation by introducing Neural Networks and the revolutionary Transformer Architecture, which forms the backbone of modern generative systems. Special emphasis is placed on the Attention Mechanism, encoder-decoder architectures, and the emergence of Large Language Models (LLMs) that power advanced conversational and content-generation systems.

Beyond foundational concepts, the book explores advanced generative techniques such as Generative Adversarial Networks (GANs) and Variational Autoencoders (VAEs), explaining their architectures, workflows, and practical applications. Readers gain insights into how generative models create realistic text, images, and multimedia content, while also understanding the principles behind AI Agents, prompt engineering, and modern AI development frameworks.

The practical relevance of Generative AI is demonstrated through extensive real-world applications across healthcare, finance, manufacturing, software engineering, media, and entertainment. The text also addresses critical contemporary topics including model

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evaluation metrics, ethical considerations, responsible AI development, and emerging innovations such as Quantum AI and Neuromorphic Computing. By combining academic rigor with practical implementation, this book provides a complete roadmap for mastering the rapidly evolving landscape of Generative Artificial Intelligence.

Salient Features:

- Foundational AI Concepts: Provides a detailed overview of the history and evolution of Artificial Intelligence, establishing a strong foundation in neural networks, machine learning, and the development of generative technologies.
- Transformer Architecture Deep Dive: Thoroughly explains Transformer Models, the Attention Mechanism, and the distinctions between encoder-based architectures (such as BERT) and decoder-based Large Language Models.
- Large Language Model Mastery: Covers the principles, architectures, and applications of LLMs, including their use in natural language processing, content generation, summarization, translation, and conversational AI systems.
- Advanced Generative Models: Presents comprehensive coverage of Variational Autoencoders (VAEs) and Generative Adversarial Networks (GANs), detailing their components, workflows, training methodologies, and practical applications.
- Practical AI Agents & Frameworks: Introduces AI Agents and modern development frameworks such as Lang Chain, enabling readers to build scalable and production-ready Generative AI applications.
- Cross-Industry Applications: Demonstrates the transformative impact of Generative AI across multiple sectors, including healthcare, manufacturing, finance, software development, and digital media.
- Model Evaluation Techniques: Explains important evaluation metrics such as Perplexity, BLEU Score, and ROUGE Score, helping readers assess and benchmark the performance of generative and language models.

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- Future & Ethical Directions: Explores emerging topics including Multimodal AI, prompt optimization techniques (Top-K and Top-P sampling), ethical AI practices, Quantum AI, and Neuromorphic Computing.

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Table Of Contents

- Introduction to Generative AI
- Transformer
- Large Language Models (LLMs)
- Image Generation
- Model Evaluation and Future of Generative AI

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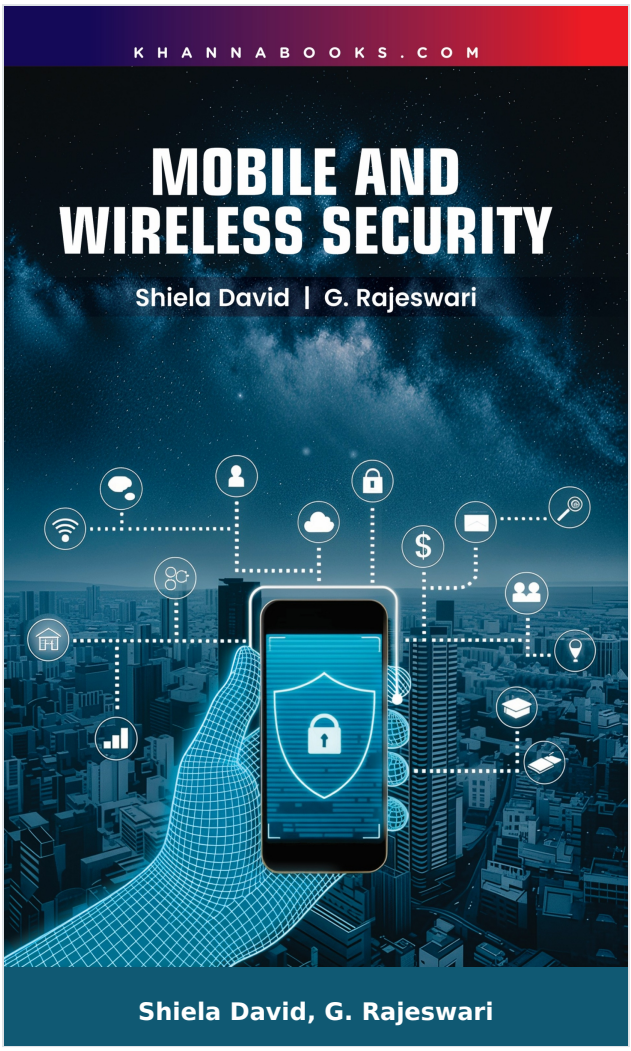
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Mobile and Wireless Security

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Product Description

In our modern, interconnected world, where wireless networks and mobile devices have become ubiquitous tools for communication, business, and daily life, the imperative for robust security has never been greater. This handbook, Mobile and Wireless Security, serves as an essential guide, providing an in-depth understanding of this dynamic and critical field, from foundational principles to the newest industry trends.

The core purpose of this material is to illuminate the underlying systems of wireless technology and expose the resultant security threats they face. The book's major goals are to enable readers to grasp the basic features of wireless systems, meticulously examine the necessary security protocols and cryptographic methods, and confidently implement effective security practices across various wireless devices. It thoroughly addresses the vast array of threats, such as unauthorized access, data intrusion, and Denial of Service (DoS) attacks, that compromise modern wireless environments.

This resource is designed for a broad target audience, including IT professionals, cybersecurity experts, academics, students, and any individual or organization—from enterprises to governments—who must proactively safeguard sensitive data and defend against unauthorized access in a mobile-first landscape. By the end of this journey, you will possess the practical knowledge required to apply sophisticated security measures to mobile wireless systems with the confidence needed to secure wireless networks in real-world applications.

Salient Features:

• Foundational Network Models: Delivers a clear overview of the OSI and TCP/IP models, establishing the fundamental theoretical frameworks necessary for understanding how various network protocols interact during end-to-end communication.

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• Wireless Protocol Evolution: Provides a comprehensive examination of essential WLAN security protocols, detailing the weakness of WEP and the evolution through WPA and WPA2 to the robust security standards offered by WPA3.

• Core Cryptography Methods: Covers symmetric and asymmetric cryptography schemes, hash functions, and key secure protocols like SSL/TLS and IPSec, which are crucial for securing data confidentiality, integrity, and non-repudiation.

• Device Security Analysis: Dedicated content analyzes security problems specific to wireless devices, including Laptops and Handsets, covering topics like physical security, application security, and the risks of information leakage.

• Cellular System Defense: Explores security considerations for cellular networks, detailing threats, types of Cellular Fraud, and the security mechanisms employed within systems like GSM and data networks such as GPRS.

• Wireless Threat Landscape: Defines and provides mitigation techniques for pervasive wireless threats, including Eavesdropping, Communication Jamming, Rogue Client Attacks, and vulnerabilities arising from weak cryptographic algorithms.

• Practical LAN Implementation: Offers practical security guidance on deploying Wireless LANs in various organizational structures, including Large Enterprise Campuses, Wireless ISP Designs, and Small Office/Home Office (SOHO) environments.

• Security Best Practices: Outlines actionable strategies for a proactive security stance, emphasizing the need for robust Authentication, ongoing Network Monitoring, regular Firmware/Software Patching, and stringent physical access controls.

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Table Of Contents

- Wireless Technology and Wireless Security
- Introduction to Wireless Security protocols and Cryptography
- Security Considerations for Wireless Devices
- Wireless Technologies and Applications
- Implementing Wireless LANs: Security Concideration s

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