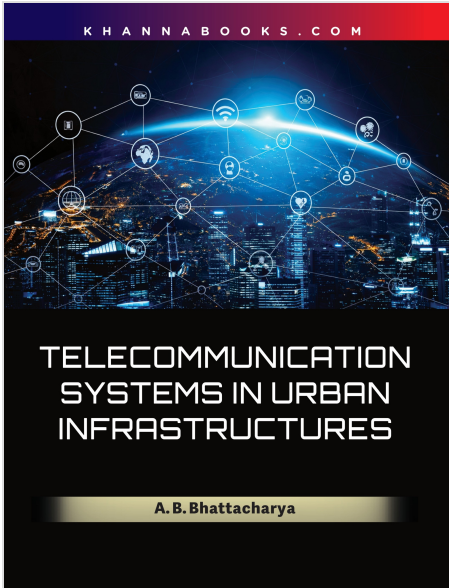




Telecommunication Systems In Urban Infrastructures

by A. B. Bhattacharya

ISBN-13	9789374542781
ISBN-10	9374542781
Edition	First
Format	Both
Publishing Year	2026
Categories	New Arrivals, Electrical, Electronics & Communication Engineering, Book Store
Original Price	₹495.00
Discounted Price	₹371.25
Stock Status	In Stock (2 available)

Description

Telecommunication Systems In Urban Infrastructures Modern cities run on connectivity. From smart transport and energy grids to IoT-enabled homes and resilient emergency networks, telecommunication on systems form invisible backbone of urban life. Telecommunication systems in Urban Infrastructure delivers a comprehensive, practical, and future-focused exploration of how communication technologies design, support, and transform smart cities. This book bridges theory and real-world application, guiding students, engineers, planners, and policymakers through the full ecosystem of urban telecommunication – from foundational signal principles to emerging 6G, AI-driven networks, and cyber-resilient infrastructure. **Readers will explore:**

- Core principles of wired and wireless telecommunication systems
- Smart city connectivity for transport, utilities, building, and public spaces
- IoT integration, cyber security, and urban data privacy
- Planning, deployment, and economic challenges in dense urban environments
- Cutting-edge technologies including AI optimization, edge/cloud computing, and quantum communication
- Global smart city case studies and future sustainability trends

Each chapter is carefully structured with:

- Concept explanations grounded in real urban scenarios
- Numerical problems and technical exercises
- Short questions and multiple-choice assessments
- Projects ideas with guided solution
- Practical insights into standards, regulations, and infrastructure planning

With coverage spanning telecom fundamentals, smart utilities, mobility systems, urban IoT, security frameworks, and next-generation networks, this book provides a complete roadmap for designing and managing connected cities. Whether you are preparing for academic study, professional deployment, or research in smart infrastructure, this text equips you with the technical depth, analytical tools, and systems perspective required building the cities of tomorrow. Build smarter networks. Design resilient cities. Shape the connected future.

About the Author(s)

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