



Terrestrial Wireless Optical Communication

Devi Chadha

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A practical guide to next-generation wireless terrestrial optical communication through the atmospheric channel

Terrestrial Wireless Optical Communication provides in-depth details on free space optics (FSO), from basic concepts to design implementation. The book explains channel characteristics in the near-IR and IR range of the spectrum, atmospheric channel models, modulation and detection techniques, optimal performance, capacity enhancement methods, and forward-error coding schemes. Link and system design issues, reliability, and safety standards are also discussed. The information in this essential guide enables you to deliver cost-effective and transparent wireless network interoperability and expandability.

Coverage includes:

- Introduction--optical wireless communication systems
- Wireless optical channels
- Channel modeling
- Modulation techniques
- Diversity and detection techniques in optical fading channels
- Channel capacity
- Coding in FSO channels
- FSO link and system design

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