



Green Communications: Theoretical Fundamentals, Algorithms and Applications

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Nowadays energy crisis and global warming problems are hanging over everyone's head, urging much research work on energy saving. In the ICT industry, which is becoming a major consumer of global energy triggered by the telecommunication network operators experiencing energy cost as a significant factor in profit calculations, researchers have started to investigate various approaches for power consumption reduction.

Standards bodies are already developing standards for energy-efficient protocols. However, research in green communications is still at an early stage, and the space of potential solutions is far from being fully explored. This book provides a comprehensive discussion of academic research and relevant applications in green communications. It aims to increase understanding of relevant issues and further the development of strategies and techniques.

Gathering efforts from world-leading experts on green topics with different focuses, such as mobile communications, wireless networks, ad hoc and sensor networks, cloud computing, optical networking, smart grids, network devices, even FPGA and terminal devices, combined with the best practices from the largest telecommunication operator, China Mobile Corporation, this book covers key features such as:

- Not only focuses on energy saving of ICT industry, but also figures out its role to help other industries reduce energy consumption
- Comprehensively covers almost all main aspects in green communications
- Includes recent advances in theoretical analysis, algorithms, and practical applications for green wired and wireless communications
- Readers do not have to be professionals in communications to understand the basic ideas in the book

This book brings green wired and wireless communications, as well as other general green topics, in one

book, which will give readers a panoramic view in the relevant green fields.

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