



Green Communications: Principles, Concepts and Practice

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This book provides a comprehensive view of green communications considering all areas of ICT including wireless and wired networks. It analyses particular concepts and practices, addressing holistic approaches in future networks considering a system perspective. It makes full use of tables, illustrations, performance graphs, case studies and examples making it accessible for a wide audience.

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Editorial Review

From the Back Cover

The steady rise of power cost in combination with regulatory initiatives and government policies are driving academia and industry towards energy-efficient solutions for ICT (Information and Communication Technologies). Mobile and fixed networks progressively handle bigger volumes of data, driven by the emerging user devices, multimedia, social and cloud services; the mass connectivity of ubiquitous communicating things and the flat rate charging models, causing a continuous need for network infrastructure enhancement, which also has to accommodate higher speeds and reliability, causing network operators difficulties in securing profits. Green or energy efficient communications is the means to reduce the cost of telecommunication services, whilst introducing social responsibility, helping network operators to be environmentally friendly.

This book examines specific mechanisms concerning wireless and fixed communication networks as well as all network layers of a telecommunication network emphasizing a system perspective, providing a comprehensive view of green communications considering the main principles and practice, documenting the industry view and standardization as well. Energy efficiency will gain even more importance over the next decade mainly due to the emerging 5G, converged networks and cloud networking, and it will be established as a key factor for economic growth in developing countries. This timely book introduces general concepts, measures and objectives, aiming to stimulate future research in green communications, which can influence the development of new approaches based on holistic and systems perspective.

- Provides a holistic view on this increasingly important topic in communications, as research into energy-efficiency across ICT gains momentum
- Gives an overview of basic concepts, approaches and metrics applicable to various telecommunication systems
- Draws out the key principles of the topic before articulating the issues within the wireless and fixed domain, highlighting synergies between the two.

About the Author

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Users Review

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Alta Favors:

Exactly why? Because this Green Communications: Principles, Concepts and Practice is an unordinary book that the inside of the guide waiting for you to snap the idea but latter it will shock you with the secret that inside. Reading this book adjacent to it was fantastic author who all write the book in such remarkable way makes the content inside of easier to understand, entertaining technique but still convey the meaning thoroughly. So , it is good for you because of not hesitating having this nowadays or you going to regret it. This excellent book will give you a lot of advantages than the other book get such as help improving your skill and your critical thinking approach. So , still want to hold up having that book? If I had been you I will go to the book store hurriedly.

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