



Visible Light Communication

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Visible light communication (VLC) is an evolving communication technology for short-range applications. Exploiting recent advances in the development of high-power visible-light emitting LEDs, VLC offers an energy-efficient, clean alternative to RF technology, enabling the development of optical wireless communication systems that make use of existing lighting infrastructure. Drawing on the expertise of leading researchers from across the world, this concise book sets out the theoretical principles of VLC, and outlines key applications of this cutting-edge technology. Providing insight into modulation techniques, positioning and communication, synchronisation, and industry standards, as well as techniques for improving network performance, this is an invaluable resource for graduate students and researchers in the fields of visible light communication, optical wireless communication, and industrial practitioners in the field of telecommunications.

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Editorial Review

Review

"This book is one of a very few about VLC, written by and for a technical audience, primarily researchers in the field. Unlike other books on VLC, this one does not delve on basic concepts about light sources or modulation formats, but goes straight to the technical matter."

Bogdan Hoanca, Optics and Photonics News

About the Author

Shlomi Arnon is a Professor at the Department of Electrical and Computer Engineering at Ben-Gurion University (BGU), Israel. He is a Fellow of the SPIE, a co-editor of Advanced Optical Wireless Communication Systems (2012), and has edited special issues of the Journal of Optical Communications and Networking (2006) and the IEEE Journal on Selected Areas in Communications (2009, 2015).

Users Review

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