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| Autore | Lambrechts Wynand |
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| Descrizione fisica | 1 online resource (217 pages) |
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| Disciplina | 025.042 |
| Soggetti | Microwaves Optical engineering Energy policy Energy and state Electrical engineering Engineering—Data processing Microwaves, RF and Optical Engineering Energy Policy, Economics and Management Communications Engineering, Networks Data Engineering |
| Lingua di pubblicazione | Inglese |
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| Nota di contenuto | Bridging the digital divide: Innovative last mile internet connectivity solutions -- Challenges of last mile internet access in developing countries -- Signal propagation and networking fundamentals required in last mile connectivity planning -- A theoretical analysis of Li-Fi: A last mile solution -- Terrestrial and millimeter-wave mobile backhaul: A last mile solution -- Successful implementations of last mile internet solutions in emerging markets. |
| Sommario/riassunto | This book presents an investigative approach to globalization-driving technologies that efficiently deliver ubiquitous, last-mile, broadband internet access to emerging markets and rural areas. Research has shown that ubiquitous internet access boosts socio-economic growth through innovations in science and technology, and has a positive effect on the lives of individuals. Last-mile internet access in |

developing countries is not only intended to provide areas with stable, efficient, and cost-effective broadband capabilities, but also to encourage the use of connectivity for human capacity development. The book offers an overview of the principles of various technologies, such as light fidelity and millimeter-wave backhaul, as last-mile internet solutions and describes these potential solutions from a signal propagation perspective. It also provides readers with the notional context needed to understand their operation, benefits, and limitations, and enables them to investigate feasible and tailored solutions to ensure sustainable infrastructures that are expandable and maintainable.
