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Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 416
Disciplina	384
Soggetti	Telecommunication Energy policy Computer engineering Computer networks Cooperating objects (Computer systems) Communications Engineering, Networks Energy Policy, Economics and Management Computer Engineering and Networks Cyber-Physical Systems
Lingua di pubblicazione	Inglese
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Nota di contenuto	Overview of broadband infrastructure in India and the world -- Key considerations to achieve beyond 5G connectivity in rural regions -- Technology options -- Techno-economic challenges -- Future Challenges.
Sommario/riassunto	The book covers a variety of feasible technology options, both wired and wireless, to enable 6G connectivity in rural and remote regions. Along with the enabling technology options, the book also covers important aspects such as human-computer interaction, business models for the local operator ecosystem, regulatory and right-of-way policies, security and privacy, and future challenges related to technology migration, urbanization, and scalability. A special feature of this book is that it covers both the optical and wireless technology aspects to realize 6G connectivity, which will be of interest to a broad range of researchers and practitioners. Detailed figures have been

included in the book to cover both the fiber-optics and wireless aspects. These figures include telecommunication equipment and networks ranging from a locality to the under-sea cables to high latitude platforms. The book has simple explanations, pictorial representations, minimal math, and conversational language, which will enable all the readers to grasp it, thereby helping them in decision making and performing comprehensive analysis. This book includes the needs of the unconnected and under-connected sections of the society, notably from the rural and remote areas, when the 6G standards are being discussed and developed. This feature will help overcome the challenge of widening the digital divide from every new generation of mobile network standards. Hence, the book covers all technical and non-technical aspects to be of interest to researchers, decision-makers, academia, social workers, and the readers in technology, growth, and empowerment. .
