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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Contributors -- Preface -- Acknowledgments -- Acronyms -- About the Companion Website -- Chapter 1 Introduction and Motivation -- 1.1 Motivation -- 1.2 Connectivity Solutions and Satellite Integration -- 1.2.1 Cellular Internet of Things -- 1.2.1.1 LongTerm Evolution Machine Type Communication -- 1.2.1.2 Narrowband Internet of Things -- 1.2.2 Noncellular Solutions -- 1.2.2.1 LongRange and LongRange Frequency Hopping Spread Spectrum -- 1.2.2.2 Sigfox -- 1.2.3 Toward Terrestrial and Nonterrestrial Internet of Things Connectivity Continuum -- 1.3 Outlook -- Acknowledgments -- Bibliography -- Chapter 2 MachineType Communications, the Internet of Things, and Satellite Networks: Drivers, Use Cases, and Requirements -- 2.1 Introduction -- 2.2 Drivers -- 2.2.1 Drivers for 6G Network -- 2.2.2 Drivers for 6G Satellite and MachineType Communications -- 2.2.2.1 Social Drivers -- 2.2.2.2 Economic Drivers -- 2.2.2.3

This book explores the integration of Machine-Type Communication (MTC) and satellite networks in the context of the Internet of Things (IoT) as the technology advances toward the 6G era. Edited by a team from the University of Oulu and the VTT Technical Research Centre of Finland, the book provides insights into the motivations, architectural frameworks, and technological challenges associated with this integration. It covers topics such as network support for massive MTC, constellation design for new space applications, medium access control protocols, and cybersecurity for networked machines. Additionally, the book discusses the role of networking in MTC and satellite connectivity, regulatory and spectrum opportunities, and the potential business prospects of integrated networks. It is aimed at researchers, engineers, and professionals interested in the future of IoT and satellite communications.
