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	Perspective; 3.1 Introduction; 3.1.1 Information marketplaces; 3.2 Some definitions; 3.2.1 Global value chains; 3.2.2 Ecosystems vs. value chains; 3.2.3 Industrial structure; 3.3 M2M value chains; 3.4 IoT value chains; 3.5 An emerging industrial structure for IoT; 3.5.1 The information-driven global value chain 3.5.1.1 Inputs to the information-driven global commodity chain3. 5.1.1.1 Sensors and radio frequency identification; 3.5.1.1.2 End-users; 3.5.1.2 Production processes of the information-driven global value chain; 3.5.1.2.1 Data factories; 3.5.1.2.2 Service providers/data wholesalers; 3.5.1.2.3 Intermediaries; 3.5.1.2.4 Resellers; 3.6 The international-driven global value chain and global information monopolies; 3.7 Conclusions; 4 M2M to IoT - An Architectural Overview; 4.1 Building an architecture; 4.2 Main design principles and needed capabilities; 4.3 An IoT architecture outline 4.4 Standards considerationsPart II: IoT Technologies and Architectures; 5 M2M and IoT Technology Fundamentals; 5.1 Devices and gateways; 5.1.1 Introduction; 5.1.1.1 Device types; 5.1.1.2 Deployment scenarios for devices; 5.1.2 Basic devices; 5.1.3 Gateways; 5.1.3.1 Data management; 5.1.3.2 Local applications; 5.1.3.3 Device management; 5.1.4 Advanced devices; 5.1.5 Summary and vision; 5.2 Local and wide area networking; 5.2.1 The need for networking; 5.2.2 Wide area networking; 5.2.1 3rd generation partnership project technologies and machine type communications 5.2.3 Local area networking
Sommario/riassunto	This book outlines the background and overall vision for the Internet of Things (IoT) and M2M communications and services, including major standards. Key technologies are described: Everything from physical instrumentation devices to the cloud infrastructures used to collect data, derive information and map it to current processes, as well as system architectures and regulatory requirements. Real world service use case studies provide the hands-on knowledge needed to successfully develop and implement M2M and IoT technologies sustainably and profitably. Finally, the future vision for M2M te