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Autore	Kijak Robert
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Nota di contenuto	1 Introduction -- 2 Glossary of Major terms and Acronyms -- 3 How can Climate Change Impact upon Water Supply Assets? -- 4 Design and Operational Considerations for Water Supply Assets -- 5 Defining Water 4.0 -- 6 Application of Water 4.0 Technologies and Solutions -- 7 A System for Managing Assets throughout their life -- 8 Conclusions. .
Sommario/riassunto	In this book, climate change and digital transformation are explored as key strategic drivers for the contemporary practices of water utility companies. These drivers seem to be separate, but clearly, they are not. The recent weather anomalies in water stressed countries are discussed, which have been breaking records and become an elevated

risk to water assets. In parallel, the book examines a contextual proposition that the concept of the fourth industrial revolution applied to the water sector, Water 4.0, assists with the water supply decentralisation and sustainability, in particular climate resilience. It further suggests that the implementation of an Asset Management System with reference to the ISO 55001 standard is a useful tool in this process. Dr Robert Kijak has accumulated almost 30 years of professional experience in the environmental and civil engineering area in senior management, professional and project management positions. This includes the world’s largest multi-national engineering consultancies, water utility companies and environmental agencies in Australia and Poland. He is a Chartered Professional Engineer (CPEng) registered by Engineers Australia, Registered Professional Engineer of Queensland (RPEQ) and a member of various asset management and maintenance societies worldwide. He holds globally recognized asset management and reliability certifications. He is currently chairing the Polish Maintenance Society's Digital Maintenance Modeling Commission with the focus on the industry’s digital transformation. .