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Nota di contenuto	Part 1: Risk Management and Qualitative Analysis -- 1. RQCM: Risk Qualitative Criticality Matrix. Case study: Ophthalmic lens production systems in Costa Rica -- 2. Factors affecting the quality of network services in emerging telecoms operating environment and markets -- Part 2: Technology and Innovation in Asset Management -- 3. A Conceptual Implementation Process for Smart Maintenance Technologies -- A Framework for Assessing Emerging Technology Risks in Industrial Asset -- Part 3: Asset Health and Maintenance Strategies -- 5. Challenges on an Asset Health Index (AHI) Calculation

-- 6. General Bases to Hierarchy Definition for Digital Assets in Railway Context -- 7. Determination of the exact economic time for the component replacement using condition-based maintenance -- Part 4: Industry-Specific Asset Management and Other Considerations -- 8. Audit models for asset management, maintenance, and reliability processes: A case study applied to the desalination plant -- 9. Audit Model for Asset Management, Maintenance and Reliability Processes: A case study applied to pulp mill sector -- 10. The Role of Eco-Driving and Wearable Sensors in Industry 4.0.

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## Sommario/riassunto

This book showcases cutting-edge research from the 16th World Congress on Engineering Asset Management (WCEAM), focusing on risk management, technology integration, and industry-specific insights. Embark on a journey into contemporary asset management with *Advances in Asset Management: Strategies, Technologies, and Industry Applications* presented by the International Society of Engineering Asset Management (ISEAM). This book explores the fundamentals of risk assessment and offers insights into network services in dynamic environments. Besides describing the integration of technology with a roadmap for smart maintenance, this work delves into emerging technology risks. Uncovering the intricacies of asset health and maintenance strategies, from calculating an Asset Health Index (AHI) to optimizing replacement timing through condition-based maintenance, this volume investigates the hierarchy definition for digital assets in the railway context. The final section highlights industry-specific insights, including practical applications of audit models in desalination plants and the pulp mill sector. 'The Role of Eco-Driving and Wearable Sensors in Industry 4.0' expands the discussion to sustainability and emerging technologies. Tailored for professionals, researchers, and students, this book provides a deep understanding of contemporary asset management practices.

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