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| 1. Record Nr.           | UNINA9910557491503321   |
| Autore                  | Reis Marco S  |
| Titolo                  | Advanced Process Monitoring for Industry 4.0  |
| Pubbl/distr/stampa      | Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021   |
| Descrizione fisica      | 1 online resource (288 p.)  |
| Soggetti                | Technology: general issues  |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Sommario/riassunto      | <p>This book reports recent advances on Process Monitoring (PM) to cope with the many challenges raised by the new production systems, sensors and "extreme data" conditions that emerged with Industry 4.0. Concepts such as digital-twins and deep learning are brought to the PM arena, pushing forward the capabilities of existing methodologies to handle more complex scenarios. The evolution of classical paradigms such as Latent Variable modeling, Six Sigma and FMEA are also covered. Applications span a wide range of domains such as microelectronics, semiconductors, chemicals, materials, agriculture, as well as the monitoring of rotating equipment, combustion systems and membrane separation processes.</p> |

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| 2. Record Nr.           | UNINA9911006845603321  |
| Autore                  | Ireland Roger  |
| Titolo                  | Project management for IT-related projects // Bob Hughes (editor) ; Roger Ireland [and three others]   |
| Pubbl/distr/stampa      | Swindon, UK : , : BCS Learning & Development, , [2019]<br>©2019  |
| ISBN                    | 9781523148257<br>152314825X<br>9781780174853<br>1780174853<br>9781780174860<br>1780174861  |
| Edizione                | [Third edition.]   |
| Descrizione fisica      | 1 online resource (1 volume) : illustrations   |
| Disciplina              | 658.4038   |
| Soggetti                | Project management<br>Information technology - Management  |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Previous edition published: 2012.  |
| Nota di bibliografia    | Includes bibliographical references and index.   |
| Nota di contenuto       | Front Cover -- Half-Title Page -- BCS, THE CHARTERED INSTITUTE FOR IT -- Title Page -- Copyright Page -- Contents -- Figures and tables -- Useful websites -- Acknowledgements -- Preface -- 1. PROJECTS AND PROJECT WORK -- Learning outcomes -- 1.1 Projects -- 1.2 Successful projects -- 1.3 Project management -- 1.4 System development life cycle -- 1.5 Project management and the development life cycle -- 1.6 Elements of project management -- 1.7 Development process models -- 1.8 Project plans -- 1.9 The business case and benefits management -- 1.10 Transition strategies -- 1.11 Post-implementation review -- Sample questions -- Pointers for activities -- 2. PROJECT PLANNING -- Learning outcomes -- 2.1 Introduction -- 2.2 Approaches to planning -- 2.3 Product flow diagram -- 2.4 Activity planning -- 2.5 Resource allocation -- 2.6 Using software tools for planning -- Sample questions -- Pointers for activities -- 3. MONITORING AND CONTROL -- Learning outcomes -- 3.1 Introduction -- 3.2 The project control cycle -- 3.3 Monitoring progress -- 3.4 |

Applying control -- 3.5 Purpose and types of reporting -- 3.6 Taking corrective action -- 3.7 Graphical representation of progress information -- Sample questions -- Pointers for activities -- 4. CHANGE CONTROL AND CONFIGURATION MANAGEMENT -- Learning outcomes -- 4.1 Introduction -- 4.2 Definition of change -- 4.3 Change control roles and responsibilities -- 4.4 The change control process -- 4.5 Configuration management -- Sample questions -- Pointers for activities -- 5. QUALITY -- Learning outcomes -- 5.1 Introduction -- 5.2 Definitions of quality -- 5.3 Quality characteristics -- 5.4 Quality criteria -- 5.5 Quality control versus quality assurance -- 5.6 Quality planning -- 5.7 Detecting defects -- 5.8 Dynamic testing -- 5.9 Evaluating suppliers -- 5.10 ISO 9001: -- Sample questions -- Pointers for activities.

6. ESTIMATING -- Learning outcomes -- 6.1 Introduction -- 6.2 What we estimate and why it is important -- 6.3 Expert judgement -- 6.4 Bottom-up and top-down approaches -- 6.5 A parametric approach -- 6.6 Estimating by analogy -- 6.7 Checklist -- Sample questions -- Pointers for activities -- 7. RISK -- Learning outcomes -- 7.1 Introduction -- 7.2 Risk management -- 7.3 Identifying risks -- 7.4 Assessing the risk -- 7.5 Quantitative approaches to risk -- 7.6 The qualitative approach to project risk assessment -- 7.7 Deciding the appropriate actions -- 7.8 Planning, monitoring and control -- 7.9 Summary -- Sample questions -- Pointers for activities -- 8. PROJECT ORGANISATION -- Learning outcomes -- 8.1 Introduction -- 8.2 Programmes and projects -- 8.3 Identifying stakeholders and their concerns -- 8.4 The organisational framework -- 8.5 Desirable characteristics of a project manager -- 8.6 Project support and management offices -- 8.7 Project team -- 8.8 Matrix management -- 8.9 Team building -- 8.10 Team dynamics -- 8.11 Management styles -- 8.12 Communication methods -- 8.13 Conclusion -- Sample questions -- Pointers for activities -- Answers to sample questions -- Bibliography -- Index -- Back Cover.

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### Sommario/riassunto

This book explains the principles of IT-related project management, including project planning, monitoring and control, change management, risk management and communication between project stakeholders. Each chapter includes an overview of the learning objectives, detailed discussion of the syllabus content, activities and multiple choice questions for self-assessment in line with the BCS Foundation Certificate in IS Project Management. This new edition introduces the latest project management thinking, terminology and standards. ---- "The structured approach, with clearly laid out learning objectives, will appeal to trainers and academics as well as practitioners, and the content is lucidly written and supported by some excellent diagrams. This practical book hits several important targets and is a valuable update of a popular standard text." - Miles Shepherd, Vice President, Association for Project Management (APM) ---- "This is a project manager's 'must-have' book, and a great testimony to the author team's hard work in pulling together a wealth of practical advice for aspiring and current project managers. 10/10!" - George Williams MBCS CITP, Management Consultant

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