1. Record Nr. UNINA9910140564803321

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| Autore | Casazza John |
| Titolo | Understanding electric power systems : an overview of the technology, the marketplace and government regulation / / John Casazza, Frank Delea |
| Pubbl/distr/stampa | Oxford, : Wiley-Blackwell, 2010 |
| ISBN | 9786612653568<br>9781118211373<br>1118211375<br>9781282653566<br>1282653563<br>9780470588475<br>0470588470<br>9780470588468<br>0470588462 |
| Edizione | [2nd ed.] |
| Descrizione fisica | 1 online resource (342 p.) |
| Collana | IEEE Press understanding science & technology series |
| Altri autori (Persone) | DeleaFrank |
| Disciplina | 333.7932 |
| Soggetti | Electric power systems<br>Electric power<br>Electric utilities |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | UNDERSTANDING ELECTRIC POWER SYSTEMS; CONTENTS; Preface to the Second Edition; Acknowledgments; CHAPTER 1 Benefits of Electric Power and a History of the Electric Power Industry; CHAPTER 2 The Electric Power System; CHAPTER 3 Basic Electric Power Concepts; CHAPTER 4 Electric Energy Consumption; CHAPTER 5 Electric Power Generation and Concerns About Greenhouse Gases; CHAPTER 6 The Technology of the Electric Transmission System; CHAPTER 7 Distribution; CHAPTER 8 Energy Storage and Other New Technologies; CHAPTER 9 Reliability<br>CHAPTER 10 The Physical Network: The North American Electric Reliability Corporation (NERC) and Its StandardsCHAPTER 11 The |

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| | Physical Network: Operation of the Electric Bulk Power; CHAPTER 12 The Physical Network: Planning of the Electric Bulk Power System; CHAPTER 13 The Regulatory Network: Legislation; CHAPTER 14 The Regulatory Network: The Regulators; CHAPTER 15 The Information, Communication, and Control Network and Security; CHAPTER 16 The Fuel and Energy Network; CHAPTER 17 Th |
| Sommario/riassunto | Technological advances and changes in government policy and regulation have altered the electric power industry in recent years and will continue to impact it for quite some time. Fully updated with the latest changes to regulation, structure, and technology, this new edition of Understanding Electric Power Systems offers a real-world view of the industry, explaining how it operates, how it is structured, and how electricity is regulated and priced. It includes extensive references for the reader and will be especially useful to lawyers, government officials, regulators, engineers, and student |

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| Record Nr. | UNINA9910346860203321 |
| Autore | Henson Michael A |
| Titolo | Feature Papers for Celebrating the Fifth Anniversary of the Founding of Processes / Michael A. Henson |
| Pubbl/distr/stampa | MDPI - Multidisciplinary Digital Publishing Institute, 2019<br>Basel, Switzerland : , : MDPI, , 2019 |
| ISBN | 9783038975267<br>3038975265 |
| Descrizione fisica | 1 electronic resource (372 p.) |
| Soggetti | History of engineering and technology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Sommario/riassunto | "Processes" is a commonly used term to describe engineered systems such as oil refineries, polymer production plants, and pharmaceutical manufacturing processes that serve a commercial and societal purpose. |

However, the term can also capture the underlying processes that drive the behavior of complex natural systems such as communities of different organisms in the environment and networked collections of neurons in the human brain. This book provides a representative overview of current challenges and recent advances in the broadly-defined "processes" field. Contributions from leading researchers in the field are conveniently ordered according to five applications domains: chemical systems, biological systems, materials processes, computational methods, and other related topics. The 19 contributions demonstrate the broad range of application domains within the process field, including fluid flow systems, fuel gases, chemical production, polymer manufacturing, food processing, protein synthesis and separation, pharmaceutical production, and water systems. This collection shows that "processes" remain a vibrant area of research, and continued advances in the field can be expected to have a positive impact on our economy, environment, and quality of life.