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| Autore | Liu Hui |
| Titolo | Non-intrusive Load Monitoring : Theory, Technologies and Applications // by Hui Liu |
| Pubbl/distr/stampa | Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020 |
| ISBN | 981-15-1860-2 |
| Edizione | [1st ed. 2020.] |
| Descrizione fisica | 1 online resource (288 pages) |
| Disciplina | 621.317 |
| Soggetti | Energy efficiency |
| | Artificial intelligence |
| | Foregy Efficiency |
| | Artificial Intelligence |
| | Power Electronics, Electrical Machines and Networks |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Introduction Detection of Transient Events in Time Series Appliance Signature Extraction Appliance Identification Based on Template Matching Steady State Current Decomposition Based Appliance Identification Machine Learning Based Appliance Identification Hidden Markov Models Based Appliance Identification Deep Learning Based Appliance Identification Deterministic Prediction of Electric Load Time Series Interval Prediction of Electric Load Time Series. |
| Sommario/riassunto | Focusing on non-intrusive load monitoring techniques in the area of smart grids and smart buildings, this book presents a thorough introduction to related basic principles, while also proposing improvements. As the basis of demand-side energy management, the non-intrusive load monitoring techniques are highly promising in terms of their energy-saving and carbon emission reduction potential. The book is structured clearly and written concisely. It introduces each aspect of these techniques with a number of examples, helping readers to understand and use the corresponding results. It provides latest strengths on the non-intrusive load monitoring techniques for |

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| e | ngineers and managers of relevant departments. It also offers |
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| e | xtensive information and a source of inspiration for researchers and |
| Si | udents, while outlining future research directions. |