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Reinventing Mechatronics

Developing Future Directions for Mechatronics

- Presents the latest research on mechatronic systems engineering
- Includes several case studies to demonstrate the new theories and methodologies introduced
- Brings the subject up to date with modern concepts such as cyber-physical systems, the Internet of Things (IoT), cloud technologies, and Big Data

This book presents the latest research on mechatronic systems engineering. By bringing together the most important papers from the 2018 Mechatronics Forum Conference 'Reinventing Mechatronics,' it outlines key trends in research and applications that will define mechatronics for the next 50 years. Mechatronics was established as an engineering discipline over 50 years ago, as the integration of electronics and information technology with mechanical design. Given major technological advances and the growth of systems-level concepts such as Cyber-Physical Systems and the Internet of Things, along with Cloud Technologies and Big Data, it's now high time to reconsider the role of mechatronics, particularly within engineering design. Past and ongoing technological changes are impacting how systems are designed and configured in ways that could never have been envisaged when the field of mechatronics was first introduced.

1st ed. 2020, XV, 186 p.

Printed book

Hardcover

119,99 € | £109.99 | \$149.99

^[1]128,39 € (D) | 131,99 € (A) | CHF

141,50

eBook

96,29 € | £87.50 | \$109.00

^[2]96,29 € (D) | 96,29 € (A) | CHF

113,00

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