



Mechatronic Systems: Fundamentals

By Rolf Isermann

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Mechatronic Systems introduces these developments by considering the dynamic modelling of components together with their interactions. The whole range of elements is presented from actuators, through different kinds of processes, to sensors.

Structured tutorial style takes learning from the basics of unified theoretical modelling, through information processing to examples of system development.

End-of-chapter exercises provide ready-made homework or self-tests.

Offers practical advice for engineering derived from experience with real systems and application-oriented research.

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Editorial Review

Review

From the reviews:

"Professor Isermann's book on mechatronics is in the meantime a real classic Isermann gives an excellent presentation of how to get a systematic order into complex systems, indispensable for all, students and professionals, being involved in these modern technologies. ... The book is written in a very clear and comprehensive way. ... Altogether a perfect book, which will find its readers. ... it will be a great success all over the world. My sincere congratulations to the author." (Friedrich Pfeiffer, *Meccanica*, Vol. 43, 2008)

From the Back Cover

Many processes and systems manifest an increasing integration of mechanical and electronic components with information processing capacity. The development of such mechatronic systems opens the way to many innovative solutions not possible with mechanics or electronics alone.

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Written by one of the World's leading experts in this progressive field, *Mechatronic Systems* will be of great value to advanced students working in control, electrical and mechanical engineering and in areas where such definitions are being superseded. It will also prove useful to practising engineers wanting an in-depth understanding of how these disciplines and that of information processing are becoming interlinked.

About the Author

Rolf Isermann is one of the leading academic figures associated with the novel and increasingly important field of mechatronics the most popular definition of which is:

Mechatronics is the synergistic integration of mechanical engineering with electronics and intelligent computer control in the design and manufacture of products and processes

He was chair of the 1st IFAC conference on Mechatronics. He has worked extensively with industry in recent years especially in the automotive sector. He is a fellow of the IEEE and a member of the IFAC general council.

Users Review

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Eva Burton:

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