



# Introduction to Mechatronics (Oxford Higher Education)

By K.K. Appukuttan

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*Introduction to Mechatronics* discusses the design of simpler, more economical, reliable and versatile systems based on the principles of mechanics, electronics and computing. The book describes the historical development of mechatronic systems and provides a basic background for mechatronic systems engineering. The introductory topics on mechatronics are dealt with in the book and it will prove to be very useful for undergraduate and postgraduate students as well as practice engineers. Beginning with the basic concepts of mechatronic systems, the book provides a comprehensive coverage of topics including system modeling and analysis, application of microprocessors and microcontrollers in mechatronic systems, sensors and actuators in mechatronic systems, intelligent systems for accurate operation of mechatronic systems, and application of mechatronic systems in autotronics, bionics, and avionics.

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### About the Author

Dr. Appukuttan is currently Professor, Department of Mechanical Engineering, National Institute of Technology, Surathkal, Karnataka. He received his Ph D from IIT Madras and has several years of teaching experience both at the undergraduate and postgraduate levels. Dr. Appukuttan has published many papers in national and international journals and conferences.

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