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An Object-Oriented Approach
to Modelling and Simulation



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Intelligent Mechatronic Systems Rochdi Merzouki, Arun Kumar Samantaray, Pushparaj Mani Pathak, Belkacem Ould Bouamama, 2012-11-27 Acting as a support resource for practitioners and professionals looking to advance their understanding of complex mechatronic systems. Intelligent Mechatronic Systems explains their design and recent developments from first principles to practical applications. Detailed descriptions of the mathematical models of complex mechatronic systems developed from fundamental physical relationships are built on to develop innovative solutions with particular emphasis on physical model based control strategies. Following a concurrent engineering approach supported by industrial case studies and drawing on the practical experience of the authors. Intelligent Mechatronic Systems covers a range of topics and includes: An explanation of a common graphical tool for integrated design and its uses from modeling and simulation to the control synthesis; Introductions to key concepts such as different means of achieving fault tolerance, robust, overwhelming control and force and impedance control; Dedicated chapters for advanced topics such as multibody dynamics and micro electromechanical systems; vehicle mechatronic systems; robot kinematics and dynamics; space robotics and intelligent transportation systems. Detailed discussion of cooperative environments and reconfigurable systems. Intelligent Mechatronic Systems provides control, electrical and mechanical engineers and researchers in industrial automation with a means to design practical, functional and safe intelligent systems

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Modeling of a Hybrid Electric Vehicle Powertrain Test Cell Using Bond Graphs Mariano P. Filippa,2006 **Mechatronics System Design** Devdas Shetty,Richard Kolk,1996-12-31 This text responds to the emergence of a new course in the ME curriculum which combines electrical components such as actuators and sensors with mechanical elements in a system

Power Electronics in Transportation ,2004 *Transactions of the ASME. ,2005* Proceedings of the Genetic and Evolutionary Computation Conference ,2001 *System Dynamics* Dean C. Karnopp,Donald L. Margolis,Ronald C.

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