



Industrial Motion Control

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About the Book

Motion control is widely used in all types of industries including packaging, assembly, textile, paper, printing, food processing, wood products, machinery, electronics and semiconductor manufacturing. Industrial motion control applications use specialized equipment and require system design and integration. To design such systems, engineers need to be familiar with industrial motion control products; be able to bring together control theory, kinematics, dynamics, electronics, simulation, programming and machine design; apply interdisciplinary knowledge; and deal with practical application issues.

The book is intended to be an introduction to the topic for senior level undergraduate mechanical and electrical engineering students. It should also be resource for system design engineers, mechanical engineers, electrical engineers, project managers, industrial engineers, manufacturing engineers, product managers, field engineers, and programmers in industry.

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About the Author

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Hakan Gürocak is an active researcher in the areas of fuzzy logic, robotic precision assembly and haptic interfaces for virtual reality for over 19 years. He developed and has been offering the three mechatronics option courses at WSU Vancouver. With prior funding from NSF and Society of Manufacturing Engineers, he developed specialized hardware/software and curriculum for remote delivery of laboratory courses over the Internet in real-time. Dr Gurocak received the 2001 WSU Vancouver Faculty Research Excellence Award and the best paper awards in 2001 ASEE Conference in Manufacturing Division on remote delivery of laboratory courses, and in 2007 ASEE Mechanical Engineering Division on mechatronics education. Dr. Gürocak is an ABET Program Evaluator for mechanical engineering programs.