Robotics For Engineers Yoram Koren

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Professor Koren was the Director of the NSF Engineering Research Center for Reconfigurable Manufacturing Systems (ERC-RMS) for 16 years, since he established the Center in 1996 until 2012. The ERC-RMS has created the largest academic manufacturing R&D testbed in the US, which was inaugurated by US Senator Spencer Abraham in October 1998.

Yoram Koren — Home Page for Prof. Yoram Koren

Yoram Koren is the founding director (in 1996) of the Engineering Research Center (ERC) for Reconfigurable Manufacturing Systems (RMS). The ERC-RMS was the very first NSF-sponsored ERC in the U-M College of Engineering, which is recognized as a formal milestone in the College 150-year history.

Home | Yoram Koren

In 1973, Yoram Koren is featured for his work on Numerical Control and reconfigurable manufacturing.

Yoram Koren | Mechanical Engineering

Robotics for Engineers McGraw-Hill Book Co. New York, 1985 One of the very first books on robotics, regarded by experts as the best introductory book to the robotics topic, still contains the scientific basis of kinematics and controls of robot arms. The book was translated to Japanese and French, and received the Dori Award.

Books — Yoram Koren

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Yoram Koren James J. Duderstadt Distinguished University Professor Emeritus; Professor Emeritus, Mechanical Engineering 1525A Dow ykoren@umich.edu

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Robotics offers encyclopedic coverage of the control and design of robotic systems, including kinematics, dynamics, soft-computing techniques, and teleoperation. Mechanical systems designers and engineers have few resources dedicated to their particular and often unique problems.

The Mechanical Systems Design Handbook | Taylor & Francis ...

Professor Yoram Koren is internationally recognized for innovative contributions to robotics, flexible automation and reconfigurable manufacturing systems. He is a member of the U.S. National Academy of Engineering, and is credited with conceiving of the reconfigurable manufacturing paradigm and as a pioneer in establishing flexible automation, computer numeric control and adaptive control of machine tools as research fields and an educational discipline.

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The concrete tools manufacturing enterprises need to thrive in today's global environment For a manufacturing enterprise to succeed in this current volatile economic environment, a revolution is needed in restructuring its three main components: product design, manufacturing, and business model. The Global Manufacturing Revolution is the first book to focus on these issues. Based on the author's long-standing course work at the University of Michigan, this unique volume proposes new technologies and new business strategies that can increase an enterprise's speed of responsiveness to volatile markets, as well as enhance the integration of its own engineering and business. Introduced here are innovations to the entire manufacturing culture: An original approach to the analysis of manufacturing paradigms Suggested methods for developing creativity in product design A quantitative analysis of manufacturing system configurations A new manufacturing "reconfigurable" paradigm, in which the speed of responsiveness is the prime business goal An original approach to using information technology for workforce empowerment The book also offers analysis and original models of previous manufacturing paradigms' technical and business dimensions—including mass production and mass customization—in order to fully explain the current revolution in global manufacturing enterprises. In addition, 200 original illustrations and pictures help to clarify the topics. Globalization is creating both opportunities and challenges for companies that manufacture durable goods. The tools, theories, and case studies in this volume will be invaluable to engineers pursuing leadership careers in the manufacturing industry, as well as to leaders of global enterprises and business students who are motivated to lead manufacturing enterprises and ensure their growth.

Robotics, Second Edition is an essential addition to the toolbox of any engineer or hobbyist involved in the design of any type of robot or automated mechanical system. It is the only book available that takes the reader through a step-by-step design process in this rapidly advancing specialty area of machine design. This book provides the professional engineer and student with important and detailed methods and examples of how to design the mechanical parts of robots and automated systems. Most robotics and automation books today emphasis the electrical and control aspects of design without any practical coverage of how to design and build the components, the machine or the system. The author draws on his years of industrial design experience to show the reader the design process by focusing on the real, physical parts of robots and automated systems. Answers the questions: How are machines built? How do they work? How does one best approach the design process for a specific machine? Thoroughly updated with new coverage of modern concepts and techniques, such as rapid modeling, automated assembly, parallel-driven robots and mechatronic systems Calculations for design completed with Mathematica which will help the reader through its ease of use, time-saving methods, solutions to nonlinear equations, and graphical display of design processes Use of real-world examples and problems that every reader can understand without difficulty Large number of high-quality illustrations Self-study and homework problems are integrated into the text along with their solutions so that the engineering professional and the student will each find the text very useful

Written for senior level or first year graduate level robotics courses, this text includes material from traditional mechanical engineering, control theoretical material and computer science. It includes coverage of rigid-body transformations and forward and inverse positional kinematics.

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Niku offers comprehensive, yet concise coverage of robotics that will appeal to engineers. Robotic applications are drawn from a wide variety of fields. Emphasis is placed on design along with analysis and modeling. Kinematics and dynamics are covered extensively in an accessible style. Vision systems are discussed in detail, which is a cutting-edge area in robotics. Engineers will also find a running design project that reinforces the concepts by having them apply what they've learned.

A multiplicity of techniques and angles of attack are incorporated in 18 contributions describing recent developments in the structure, architecture, programming, control, and implementation of industrial robots capable of performing intelligent action and decision making. Annotation copyright Book

This book gathers the proceedings of the 4th International Conference on the Industry 4.0 Model for Advanced Manufacturing (AMP 2019), held in Belgrade, Serbia, on 3–6 June 2019. The event marks the latest in a series of high-level conferences that bring together experts from academia and industry to exchange knowledge, ideas, experiences, research findings, and information in the field of manufacturing. The book addresses a wide range of topics, including: design of smart and intelligent products, developments in CAD/CAM technologies, rapid prototyping and reverse engineering, multistage manufacturing processes, manufacturing automation in the Industry 4.0 model, cloud-based products, and cyber-physical and reconfigurable manufacturing systems. By providing updates on key issues and highlighting recent advances in manufacturing engineering and technologies, the book supports the transfer of vital knowledge to the next generation of academics and practitioners. Further, it will appeal to anyone working or conducting research in this rapidly evolving field.

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