

Computer Integrated Manufacturing (3rd Edition)

By James A. Rehg, Henry W. Kraebber

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The book presents computer integrated manufacturing as an integral element of the entire manufacturing process, describing its relation to product and process design issues; computer-based process control and automation; operations and information systems for manufacturing; quality; and human considerations. This book delves into the manufacturing enterprise, the design elements and production engineering, controlling the enterprise resources, and enabling processes and systems for modern manufacturing. Professionals preparing for the APICS certification exams.

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Editorial Review

From the Publisher
Vital to today's manufacturing processes, this book shows how CIM fits into the current manuafacturing systems and how the technology is used to solve real-world industrial problems. This is the only technology level text in Computer-Integrated Manufacturing.

From the Back Cover

Understanding the operation of a comprehensive CIM solution requires knowledge of traditional manufacturing practices, a look at the current state of CIM, and consideration of how technology and operating procedures may change in the future. The integration of product design techniques and manufacturing fundamental principles, along with a look at changing operations and information systems that support CIM throughout the enterprise, make *Computer-Integrated Manufacturing* unique.
This text is written to provide the technologist or engineer with a complete overview of the computer-integrated enterprise. It effectively accomplishes this goal by:

- describing the different types of manufacturing systems or production strategies used by industries worldwide, and showing how the technology is used to solve actual industrial problems
- going beyond the description of automated machines and software solutions to discuss *all* factors necessary for a successful CIM implementation
- discussing the impact of CIM on all major elements of an enterprise–product design, shop floor technology, and manufacturing production and operational control systems
- providing a convincing argument for implementing CIM so that the enterprise will be competitive in the global market

About the Author

James A. Rehg, CMfgE, is an Associate Professor of Engineering at Penn State Altoona, where he teaches automation controls courses in the BS program in Electromechanical Engineering Technology. He earned both a Bachelor of Science degree and a Master of Science degree in Electrical Engineering from St. Louis University and has completed additional graduate study at Wentworth Institute, University of Missouri, South Dakota School of Mines and Technology, and Clemson University. Before coming to Penn State Altoona, he was the CIM coordinator and department head of CAD/CAM/Machine Tool Technology at Tri-County Technical College. Prior to that, he was the Dean of Engineering Technology and Director of Academic Computing at Trident Technical College in Charleston, South Carolina. He held the position of Director of the Robotics Resource Center at Piedmont Technical College in Greenwood, South Carolina, and was department head of Electronic Engineering Technology of Forest Park Community College in St. Louis, Missouri. In addition, he was a Senior Instrumentation Engineer for Boeing in St. Louis. Professor Rehg has authored five texts on robotics and automation and has presented numerous papers on subjects related directly to training in automation and robotics. He has also been a consultant to nationally recognized corporations and many educational institutions. He has led numerous seminars and workshops in the areas of robotics and microprocessors and has developed extensive seminar training material. In addition, he has received numerous state awards for excellence in teaching and was named the outstanding instructor in the nation by the Association of Community College Trustees.

Henry W. Kraebber, PE, CPIM, is a Professor of Mechanical Engineering Technology at Purdue University in West Lafayette, Indiana. He has fifteen years of experience and leadership in manufacturing operations, engineering, quality, and management. He has worked at the Collins Avionics and Missiles group of Rockwell International, the Plough Products Division of Schering-Plough Corporation, and Flavorite Laboratories, Inc. His work has supported the production of industrial, consumer, and military products in the food, consumer products, and electronics areas. He currently teaches courses in manufacturing operations, manufacturing quality control, and integrated systems in the Computer-Integrated Manufacturing Technology degree program. Mr. Kraebber earned a Bachelor of Science degree in Industrial Engineering from Purdue University and a Master of Engineering degree in Industrial Engineering from Iowa State University. He is President of the CIM in Higher Education (CIM/HE) Alliance, a nonprofit corporation that supports CIM and manufacturing education. He is a senior member of the Society of Manufacturing Engineers (SME) and the Institute of Industrial Engineers (IIE). He is an active member of the American Production and Inventory Control Society (APICS) and has served as President and Vice President of Education for the Wabash Valley Chapter.

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