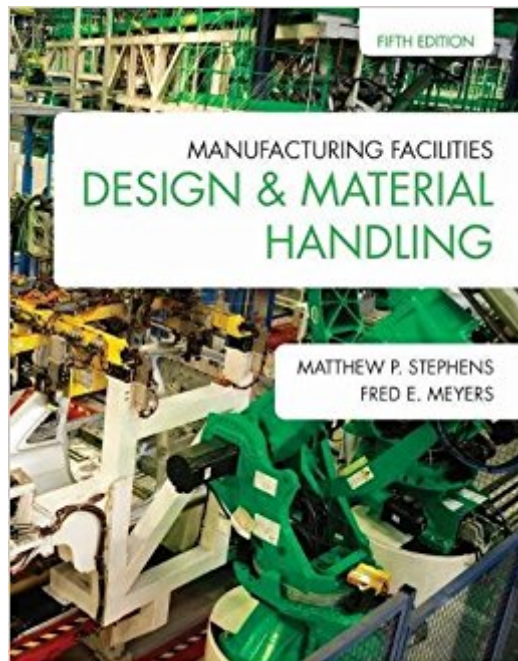




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Manufacturing Facilities Design & Material Handling (Fifth Edition)



Synopsis

Designed for junior- and senior-level courses in Plant and Facilities Planning and Manufacturing Systems and Procedures, this textbook is also suitable for graduate-level and two-year college courses. The book takes a practical, hands-on, project-oriented approach to exploring the techniques and procedures for developing an efficient facility layout. It also introduces state-of-the-art tools including computer simulation. Access to Layout-iQ workspace planning software is included for purchasers of the book. Theoretical concepts are clearly explained and then rapidly applied to a practical setting through a detailed case study at the end of the volume. The book systematically leads students through the collection, analysis, and development of information to produce a quality functional plant layout for a lean manufacturing environment. All aspects of facility design, from receiving to shipping, are covered. In the fifth edition of this successful book, previously published by Prentice Hall, numerous updates and corrections have been made. Also, rather than including brief case-in-point examples at the end of each chapter, a single, detailed case study is provided that better exposes students to the multiple considerations that need to be taken into account when improving efficiency in a real manufacturing facility. The textbook has enjoyed substantial international adoptions and has been translated into Spanish and Chinese. This replaces the 4th Edition by Prentice Hall (ISBN# 978-0135001059).

Book Information

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Customer Reviews

Matthew P. Stephens is a professor and a University Faculty Scholar in the College of Technology at Purdue University, where he teaches graduate and undergraduate courses in facilities planning, statistical quality control, and productivity- and reliability-based maintenance management. Stephens holds undergraduate and graduate degrees from Southern Illinois University and the University of Arkansas, with specialization in operations management and statistics. He spent nine years with several manufacturing and business enterprises, and he has been involved as a consultant with a number of major manufacturing companies. Stephens has numerous publications to his credit including several internationally adopted textbooks. Fred E. Meyers, P.E., is an emeritus professor in the College of Engineering and Technology at Southern Illinois University. He is an author and consultant, principal of Fred E. Meyers & Associates. Meyers has worked in heavy equipment manufacturing, aerospace, appliance manufacturing, and several other areas. His vast experience and varied assignments have made significant contributions to this textbook. His previous books include Plant Layout and Material Handling (1993) and Motion and Time Study for Lean Manufacturing (with James R. Stewart) (2001).

Like a new

The book, besides being an enjoyable read, brings knowledge of high value, easy understanding and aligned with the realities of modern manufacturing . From my understanding the practical application of the knowledge in this book has great power to increase the competitiveness of organizations. Highly recommended for all who in one way or another, work in manufacturing organizations.

Would not have purchased if I was not required to for a class, but now that I have it, I am glad I did. Its an easy read, but the information inside is very good.

Used this text in my Plant Design course. Fluent wording and easy understanding were my two high points I liked about it

Good overview of the design principles, but too much academic, when you want to apply it in practice.

Good book but it needs more examples.

good condition textbook

This book was part of my studies at ECU, where I received a BS in manufacturing, in 2013. It portrays the current style of management in the western world, which has led us into industrial decline for decades. Fortunately, I also learned a little about W. Edwards Deming at the university. He was not given the credit he deserves, nor did we really study his teachings. I have done this myself. This book is a farce and a travesty, for example saying if a department saves \$100,000 per year per employee, it doesn't have to worry about layoffs or elimination. Really, what if you make carburetors and somebody invents fuel injection? This book and its style of thinking is destroying us, WAKE UP AMERICA! DEMING !!! Another example from the text: Plants with incentive systems operate at 120% ! That is like shooting 10 free throws in a basketball game and making 12 ! IT CANNOT BE DONE !!! STUDY DEMING or God help us!!!

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