Hans-Peter Wiendahl - Jürgen Reichardt Peter Nyhuis

Handbook Factory Planning and Design





# **Handbook Factory Planning And Design**

David I. Cleland, Bopaya Bidanda

## **Handbook Factory Planning And Design:**

Handbook Factory Planning and Design Hans-Peter Wiendahl, Jürgen Reichardt, Peter Nyhuis, 2015-04-20 This handbook introduces a methodical approach and pragmatic concept for the planning and design of changeable factories that act in strategic alliances to supply the ever changing needs of the global market In the first part the change drivers of manufacturing enterprises and the resulting new challenges are considered in detail with focus on an appropriate change potential The second part concerns the design of the production facilities and systems on the factory levels work place section building and site under functional organisational architectural and strategic aspects keeping in mind the environmental health and safety aspects including corporate social responsibility. The third part is dedicated to the planning and design method that is based on a synergetic interaction of process and space The accompanying project management of the planning and construction phase and the facility management for the effective utilization of the built premises close the book The Authors Prof em Dr Ing Dr mult h c Hans Peter Wiendahl has been director for 23 years of the Institute of Factory planning and Logistics at the Leibniz University of Hannover in Germany Prof Dipl Ing Architekt BDA J rgen Reichardt is Professor at the Muenster school of architecture and partner of RMA Reichardt Maas Associate Architects in Essen Germany Prof Dr Ing habil Peter Nyhuis is Managing Director of the Institute of Factory Planning and Logistics at the Leibniz University of Hannover in Germany Factory Planning Manual Michael Schenk, Siegfried Wirth, Egon Müller, 2009-10-29 The central purpose of this book is to impart knowledge skills and practical plementation methods for the planning and operation of adaptable production cilities and factories It addresses planning methods and procedures for various types of production facility up to and including entire factories and is aimed at practicing factory planners and students alike The book provides facts and demonstrates practical processes using case studies for the purposes of illustration so that ultimately skills can be acquired that make independent practical implementation and app cation possible It is based on up to the minute practical experience and univ sally applicable knowledge of the planning and technological design of adaptable production facilities manufacturing and assembly and factories In comparison to existing thematically similar reference books what is in vative about this manual is that it provides the impulse for a more flexible pl ning approach for the efficient design of adaptable production facilities using sponsive unconventional planning and organizational solutions The book aims to provide a way of integrating systematic and situation driven planning methods in a meaningful way Situation driven planning is becoming increasingly important to production facilities in these fast moving times of change in particular in terms of resource and energy efficiency Existing technical and organizational course of action in terms of resources both human and technical need to be selected for the specific case at hand and changes to workshops products processes and equ ment need to be managed Product Design and Factory Development Richard Crowson, 2006 Reflecting the latest trends and technologies that have developed over the last decade since the first successful edition of this handbook was published

the Handbook of Manufacturing Engineering Second Edition has expanded into four volumes Each volume stands well on its own and combined they provide the most comprehensive and thorough coverage available They may be purchased individually for the specialist in need of a focused treatment or as a set at a substantially reduced priced and enclosed in an attractive slipcase The volumes collectively cover product design and factory development factory operations including planning parts fabrication and automated and manual assembly processes Midwest The Automated Factory Handbook David I. Cleland, Bopaya Bidanda, 1990 Very Good No Highlights or Markup all pages are intact Handbook of Design. Manufacturing and Automation Richard C. Dorf, Andrew Kusiak, 1994 Comprehensive detailed and organized for speedy reference everything you need to know about modern manufacturing technology From concurrent engineering to fixture design for machining systems from robotics and artificial intelligence to facility layout planning and automated CAD based inspection this handbook provides all the information you need to design plan and implement a modern efficient manufacturing system tailored to your company s special needs and requirements Handbook of Design Manufacturing and Automation does more than simply present the characteristics and specifications of each technology much more Each technology is discussed both in terms of its own capabilities and in terms of its compatibility with other technologies and the trade offs involved in choosing one option over another are explored at length An entire section is devoted to the business aspects of converting to the new technologies including acquisition of automation managing advanced manufacturing technology and issues of cost and financing The focus is on incorporating these technologies into a cohesive whole an efficient cost effective manufacturing system Other important topics include Design for automated manufacturing Nontraditional manufacturing processes Machine tool programming techniques and trends Precision engineering and micromanufacturing Computer integrated product planning and control Image processing for manufacturing And much more

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