

Manufacturing Systems Engineering Katsundo Hitomi

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x-ray imaging
1 Day 1961 0.28% DJIA -0.21% S&P 500 -0.11% Real Estate/Construction 0.02% Hirokazu Ishida Director & Senior Managing Executive Officer Sanki Engineering Co., Ltd. Yoshio Kawabe Director Sanki ...

This second edition of the classic textbook has been written to provide a completely up-to-date text for students of mechanical, industrial, manufacturing and production engineering, and is an indispensable reference for professional industrial engineers and managers. In his outstanding book, Professor Katsundo Hitomi integrates three key themes into the text: * manufacturing technology * production management * industrial economics Manufacturing technology is concerned with the flow of materials from the acquisition of raw materials, through conversion in the workshop to the shipping of finished goods to the customer. Production management deals with the flow of information, by which the flow of materials is managed efficiently, through planning and control techniques. Industrial economics focuses on the flow of production costs, aiming to minimise these to facilitate competitive pricing. Professor Hitomi argues that the fundamental purpose of manufacturing is to create tangible goods, and it has a tradition dating back to the prehistoric toolmakers. The fundamental importance of manufacturing is that it facilitates basic existence, it creates wealth, and it contributes to human happiness - manufacturing matters. Nowadays we regard manufacturing as operating in these other contexts, beyond the technological. It is in this unique synthesis that Professor Hitomi's study constitutes a new discipline: manufacturing systems engineering - a system that will promote manufacturing excellence. Key Features: * The classic textbook in manufacturing engineering * Fully revised edition providing a modern introduction to manufacturing technology, production management and industrial economics * Includes review questions and problems for the student reader

This edition has been fully revised and updated. The book's theme is a unified approach to manufacturing technology and production management. Topics covered include: fundamentals of manufacturing systems; process systems; and management systems, value systems and automation systems.

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These proceedings contain more than 80 of the best papers presented at the INCOM '92 Symposium, and relate to the vast changes which are occurring worldwide in manufacturing technology. Research oriented technical papers cover subjects such as: simulation of manufacturing processes; sensor based robots; information systems; general aspects of CIM and manufacturing networks.

Mass production! and mass consumption, so far considered virtues in a free economic society, have changed. Various problems have occurred including economic stagnation, energy crisis, shortage of material resources, proliferation of pollution, lack of skilled labor, rapid changes of product design, technical innovation, and others. Moreover, individual manufacturing firms must take steps to adopt multi-product, small-lot-sized (batch type) production as a type of production in order to adapt themselves to a market movement characterized by a diversified and specialty-oriented society and a short product life cycle. The number of manufacturing firms worldwide that use a type of multi-product, small-lot-sized production is expected to increase. This is so even in the United States, which has been said to be a country of mass production. Multi-product, small-lot-sized production has been considered to be a milestone to flow-type mass production, which has been thought to be the most effective production system. Intensive efforts have been made to investigate mass production systems from both theoretical and practical viewpoints. Few studies have been made for multi-product, small-lot-sized production (batch-type manufacturing). Considering the present business circumstances faced with various difficulties, it is strongly required to establish some theories useful for making practically effective and flexible multi-product, small-lot-sized production systems. Several effective approaches to the batch-type manufacturing systems have been developed. Group technology (GT) is one such method that has steadily obtained great interest from progressive manufacturing firms all over the world.

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