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Journal of Research of the
National Bureau of
Standards John Wiley &
Sons

The 1st study edition is based on the 2nd hardcover edition of "Business Process Engineering". Several inconsistencies and minor modifications have been carried out. This study edition is a response to many requests for a

budget-priced edition for students. This edition pursues a holistic descriptive approach that is based on the Architecture of Integrated Information Systems (ARIS) developed by the author. In addition to the data view, this approach also comprises the function, organization and control views, and encompasses all phases of the information system lifecycle - from analysis, requirements definition and design specification

to implementation. The reference models developed here can thus serve as initial models for concrete applications. The illustrations are oriented strongly toward standard software in order to reflect their significance in terms of real-world representations. In particular, the discussion applies examples from the R/3 system from SAP AG and from the systems from IDS Prof. Scheer GmbH, build on concepts developed by the author.

No "user description" of concrete systems is provided; instead, general foundations are laid in order to facilitate a deeper understanding of the application logic that is reflected in standard software. An attempt is made to close the gap between business administration theory and the "operating instructions" of standard software.

Enabling Manufacturing Competitiveness and Economic Sustainability
Springer Science & Business Media

The automotive industry faces constant pressure to reduce development costs and time while still increasing vehicle quality. To meet this challenge, engineers and researchers in both science and industry are developing effective strategies and flexible tools by enhancing and further integrating powerful, computer-aided design technology. This book provides a valuable overview of the development tools and methods of today and tomorrow. It is targeted

not only towards professional project and design engineers, but also to students and to anyone who is interested in state-of-the-art computer-aided development. The book begins with an overview of automotive development processes and the principles of virtual product development. Focusing on computer-aided design, a comprehensive outline of the fundamentals of geometry representation provides a deeper insight into the mathematical techniques used to

describe and model geometrical elements. The book then explores the link between the demands of integrated design processes and efficient data management. Within automotive development, the management of knowledge and engineering data plays a crucial role. Some selected representative applications provide insight into the complex interactions between computer-aided design, knowledge-based engineering and data

management and highlight some of the important methods currently emerging in the field.

Proceedings Springer Science & Business Media Index to ASTM standards issued as last part of each vol.

Journal of Research of the National Bureau of Standards Springer Science & Business Media Quality-Oriented Design of Business Processes introduces a modeling method, 'Integrated Enterprise Modelling' (IEM), which is related to

ISO standards and provides manufacturing organizations with the means of analyzing, improving, and redesigning their business processes. The purpose of the book is to improve the quality of products and organizational performance through optimizing complex business processes and organizational design. Clearly, changing markets and innovative competitors force each company to study and improve its organization, its business processes,

and the technologies it employs. Whoever drops behind in these times loses market share and endangers the long-term existence of the company. Hence, it is critical to realign the entire corporate planning and design throughout the value-added chain to speed up the business processes. The book is the result of a scientific study funded by the German Federal Ministry for Research and Technology. The authors develop the concept of Quality-Oriented Design of

Business Processes, which is the underlying motivation for IEM. Moreover IEM is the engine for achieving the integration of quality management into the design and planning of business processes. The book discusses the IEM method thoroughly and applies it to the concept of 'Quality-Oriented Design of Business Processes' throughout the book. This concept is illustrated with an example of a company. Finally, the book describes the entry of the

IEM method into national, European and international standardization.

Proceedings of the CIRP Seminars on Manufacturing Systems/fertigungssysteme/systèmes de

Fabrication Springer Science & Business Media
Over the last several years, manufacturers have expressed increasing interest in reducing their energy consumption and have begun to search for opportunities to reduce their energy usage. In this

book, the authors explore a variety of opportunities to reduce the energy footprint of manufacturing. These opportunities cover the entire spatial scale of the manufacturing enterprise: from unit process-oriented approaches to enterprise-level strategies. Each chapter examines some aspect of this spatial scale, and discusses and describes the opportunities that exist at that level. Case studies demonstrate how the opportunity may be acted on with practical guidance

on how to respond to these opportunities. *Biotechnology for Clean Industrial Products and Processes Towards Industrial Sustainability* IGI Global
Die Normenreihe ISO 10303 (STEP) stellt die wesentliche Grundlage der Produktdatentechnologie dar. Mit der zunehmenden Verbreitung in den unterschiedlichsten Ingenieurdisziplinen sind heute Ansätze zur Integration von CA-Systemen ohne STEP undenkbar. Vor diesem

Hintergrund stellt die Einführung von STEP für alle technischen Unternehmen sowie auch die Weiterentwicklung der Produktdatennorm eine große Herausforderung dar. Das vorliegende Buch soll einen fundierten Einblick in die STEP Technologie ermöglichen. Thematische Schwerpunkte wie Leistungsumfang, Implementierung und Normung von STEP werden im Zusammenhang mit industriellen Anforderungen an die

Produktdatentechnologie betrachtet und bewertet. Ausgehend von einer Betrachtung industrieller Kooperationsmodelle an den Produktentstehungsprozessen wird die Komplexität sowie der Integrationsbedarf von CA-Systemen und deren Produktdaten dargestellt. Es folgen ausführliche Erläuterungen zu den Inhalten der Normenreihe STEP. Dabei werden auf die Modellierungssprache EXPRESS, den Aufbau und die Inhalte der Datenmodelle sowie die

Implementierungsmethoden eingegangen. Die Einbettung von STEP in relevante begleitende Standards wie CORBA, JAVA und SGML sowie unterstützende Technologien wie Internet/Intranet wird ausführlich erläutert. Weitere Schwerpunkte sind die Implementierung von STEP sowie die Einführung bzw. die Anwendung von STEP basierten Softwareprodukten. Beispiele aus der industriellen Einführung und Anwendung von STEP

runden das Gesamtbild ab und stellen den Praxisbezug her.

Methode zur ergebnisorientierten Gestaltung von Entwicklungsprozessen

Springer

"Developments in Computer-Integrated Manufacturing" arose from the joint work of members of the IFIP-Working Group 5.3 - Discrete Manufacturing, and other IFIP members. Within the Technical Committee 5 of the International Federation of Information Processing

(IFIP) the aim of this Working Group is the advancement of computers and their application to the field of discrete part manufacturing. Capabilities will be expanded in the general areas of planning, selection, and control of manufacturing equipment and systems. Tools for problem solution include: mathematics, geometry, algorithms, computer techniques, and manufacturing technology. This technology will influence

many industries - machine tool, automation, aircraft, appliance, and electronics, to name but a few. The Working Group undertook the following specific tasks: 1. To maintain liaison with other national and international organizations working in the same field, cooperating with them whenever desirable to further the common goal 2. To be responsible for the IFIP's work in organizing and presenting the PRO LAMA T Conferences 3. To conduct other working

conferences and symposia as deemed appropriate in furthering its mission 4. To develop and sponsor research and industrial and social studies into the various aspects of its mission. The book can be regarded as an attempt to underline the main aspects of technology from the point of view of its software and hardware realization. Because of limitations in size and the availability of literature, the problems of robotics and quality control are not described in detail.

**Entwicklung einer
Methode zur
Stammdatenintegration**

Springer Science & Business Media
The history of the Faculty of Mechanical and Industrial Engineering is as old as that of the TU Wien. As intended by its founders, the former Imperial Royal Polytechnic Institute worked closely together with industry and business, addressing topics from the very beginning that one would today assign to the Faculty of Mechanical and Industrial Engineering. In

correspondence with overall technological progress, the research topics and teaching fields of the faculty have undergone continual, often even revolutionary, development and change. This commemorative volume provides both a historical overview of the evolution of the faculty as well as exemplary highlights and striking characteristics of the developments of the last 50 years in particular. *Government Reports Announcements & Index*
Springer Science &

Business Media
The first English-language edition of this book was published in 1989 under the title "Enterprise-Wide Data Modelling." It introduced a new enterprise data model that has since gone on to enjoy widespread use as a reference model. Since that time, the author has continued to develop the representation of application problems, both on a theoretical basis using modeling languages and on a practical basis using real-world studies. This has led to so many

new aspects that this second English-language edition (the original German version is now in its fifth edition) constitutes a completely new book. The new title expresses the stricter emphasis on business processes in contrast to the previous edition, which was geared more toward a functional structure. This approach reflects the trend toward process oriented structural and procedural organization in enterprises that is currently being supported

by new means of information processing. Perhaps the most obvious way in which the second English-language edition differs from the first is in the increased number of pages. This is a direct result of the higher degree of detail and the more thorough problem description presented in the new edition. The degree of detail has increased in the case of those problems that are particularly important in terms of selecting and designing information systems in an industrial

enterprise, e.g., the product description and CAM factory organization. This approach provides greater reality and thus facilitates a better understanding of the complex organism that is an industrial enterprise. *Business Process Engineering* Springer Industrial Product-Service Systems (IPS2), which is defined as “an integrated industrial product and service offering that delivers value in use,” has expanded rapidly over the last decade. IPS2 has allowed us to achieve

both high added value and high productivity and has enriched our QOL by improving the performance of products and services. We are now struggling with many awkward issues related to sustainability, but IPS2 is expected to be the “philosopher’s stone” for solving these issues. Following the pattern of conferences held in Cranfield in 2009, Linköping in 2010, and Braunschweig in 2011, the fourth International CIRP Conference on Industrial Product-Service

Systems, held on November 8-9, 2012, in Tokyo, will cover various aspects of IPS2. Topics planned for this year’s conference reflect the latest IPS2 information in both the natural sciences and humanities and include case studies from various industries. IPS2 is still a relatively new field, so it is important to keep track of the entire context in order to promote more cross-sectional cooperation between multimodal fields and disciplines. The fourth International CIRP

Conference on Industrial Product-Service Systems will serve as a vital platform for such collaborations and the discussion of new scientific ideas.
CAM Logos Verlag Berlin GmbH
Das Buch zeigt den aktuellen Stand in Forschung und Praxis über virtuelle Ergonomie und digitale Menschmodelle.
Methoden und Werkzeuge für Praktiker, Wissenschaftler sowie Studierende, um die Menschmodelle

einzusetzen, werden erläutert. Dazu bietet es methodisch aufbereitetes Wissen zu digitalen Menschmodellen und virtueller Ergonomie. Insbesondere für Konstrukteure und Planer werden wertvolle Praxisbeispiele zum Einsatz der Menschmodelle gegeben. Dieses Lehr- und Praxisbuch vermittelt das Wissen, dass zur digitalen, rechnergestützten Arbeit mit dem Fokus ergonomischer Produkt- und Prozessgestaltung notwendig ist. Die

Digitalisierung der Arbeitswelt hat die Art und Weise, wie ergonomische Gestaltung mit dem Mensch im Mittelpunkt funktioniert, wesentlich verändert. Im Buch werden dazu Grundlagen der Ergonomie behandelt, nachvollziehbar und systematisch die Entwicklung seit den ersten Körperumrisschablonen dargestellt und neuste Werkzeugen virtueller Ergonomie gezeigt. Im Mittelpunkt stehen außerdem spannende

Beispiele virtueller Ergonomie aus Wissenschaft und Praxis zahlreicher Autoren.
Product Lifecycle Management Springer Science & Business Media
 This research monograph aims at presenting an integrated assessment approach to describe, model, evaluate and improve the eco-efficiency of existing and new grinding processes and systems. Various combinations of grinding process parameters and system configurations can be evaluated based on

the eco-efficiency. The book presents the novel concept of empirical and physical modeling of technological, economic and environmental impact indicators. This includes the integrated evaluation of different grinding process and system scenarios. The book is a valuable read for research experts and practitioners in the field of eco-efficiency of manufacturing processes but the book may also be beneficial for graduate students.

Imagination, Creativity,

and Responsible Management in the Fourth Industrial Revolution

OECD Publishing

The changing manufacturing environment requires more responsive and adaptable manufacturing systems. The theme of the 4th International Conference on Changeable, Agile, Reconfigurable and Virtual production (CARV2011) is “Enabling Manufacturing Competitiveness and Economic Sustainability”. Leading edge research and best implementation

practices and experiences, which address these important issues and challenges, are presented. The proceedings include advances in manufacturing systems design, planning, evaluation, control and evolving paradigms such as mass customization, personalization, changeability, re-configurability and flexibility. New and important concepts such as the dynamic product families and platforms, co-evolution of products

and systems, and methods for enhancing manufacturing systems' economic sustainability and prolonging their life to produce more than one product generation are treated. Enablers of change in manufacturing systems, production volume and capability scalability and managing the volatility of markets, competition among global enterprises and the increasing complexity of products, manufacturing systems and management strategies are discussed. Industry challenges and

future directions for research and development needed to help both practitioners and academicians are presented.

**Die Fakultät für
Maschinenwesen und
Betriebswirtschaften/
The Faculty of
Mechanical and
Industrial Engineering**

Herbert Utz Verlag
This book is an essential guide or foundational toolkit for anyone who is involved in the process of developing, offering or selling any type of product or service. Based

on how to surf on the waves of innovation and the principle of "form follows function" (System Architecture), it introduces and connects concepts like Market Understanding, Design Thinking, Design to Value, Modularization and Agility. It introduces readers to the essence of these main frameworks and provides a toolkit that explains both theoretically and practically when and how to utilize which one. The methods and processes described in this book have all been successfully

tested in many industries. They apply in today's market context of high uncertainty, complexity and turbulence, where innovation and disruption are essential. Readers will find answers to two fundamental questions: How can we implement an innovation process and environment that are conducive to successful product design? And, if our products fail to appeal to customers, how can we achieve a major turn-around with regard to product development? A wealth of examples and

case studies help readers to benefit from the authors' broad professional experience. Further, lessons learned and conceptual summaries provide valuable shortcuts to the methods and tools discussed. For today's CEOs, enabling innovation is one of THE most complex leadership tasks. But innovation is not about theory and nice buzzwords. It's about succeeding in the real world. This 'hands-on' book connects the dots and introduces the reader

to some of the most relevant ideas and pragmatic concepts fitting today's business reality. Dr. Robert Neuhauser, Executive VP and Global Head People and Leadership Development, Siemens At the most fundamental level this book brings order to chaos. It sets different and highly relevant design approaches into a complementary picture, rather than presenting them as competing ways of solving the same problem. Product designers, managers,

consultants, scholars and students will surely have this valuable book within reach on a daily basis.

Olivier L. de Weck, Ph.D – MIT Professor of Aeronautics and Astronautics and Engineering Systems, Editor-in-Chief Systems Engineering

Robust Manufacturing Control John Wiley & Sons
This open access book contains the research report of the Collaborative Research Center “Micro Cold Forming” (SFB 747) of the University of Bremen, Germany. The

topical research focus lies on new methods and processes for a mastered mass production of micro parts which are smaller than 1mm (by forming in batch size higher than one million). The target audience primarily comprises research experts and practitioners in production engineering, but the book may also be of interest to graduate students alike.

Journal of Industrial and Engineering Chemistry
Springer Science & Business Media
Angelika C. Bullinger

elaborates, applies and tests a methodology for ontology development for use in business management. She models ontologically the moment of idea assessment and selection on a company-specific, industry-typical and generic level and presents action-oriented implications for implementation of the methodology in business reality.

Engineering Springer
Science & Business Media
This contributed volume collects research papers, presented at the CIRP

Sponsored Conference Robust Manufacturing Control: Innovative and Interdisciplinary Approaches for Global Networks (RoMaC 2012, Jacobs University, Bremen, Germany, June 18th-20th 2012). These research papers present the latest developments and new ideas focusing on robust manufacturing control for global networks. Today, Global Production Networks (i.e. the nexus of interconnected material and information flows through which products

and services are manufactured, assembled and distributed) are confronted with and expected to adapt to: sudden and unpredictable large-scale changes of important parameters which are occurring more and more frequently, event propagation in networks with high degree of interconnectivity which leads to unforeseen fluctuations, and non-equilibrium states which increasingly characterize daily business. These multi-scale changes deeply influence logistic

target achievement and call for robust planning and control strategies. Therefore, understanding the cause and effects of multi-scale changes in production networks is of major interest. New methodological approaches from different science disciplines are promising to contribute to a new level comprehension of network processes. Unconventional methods from biology, perturbation ecology or auditory display are gaining increasing importance as

they are confronted with similar challenges.

Advancements from the classical disciplines such as mathematics, physics and engineering are also becoming of continuing importance.

Business Process

Engineering Study Edition

Springer-Verlag

As we move through the Fourth Industrial Revolution, people are becoming more concerned about the potential benefits and risks of digital technology and its impact. People are worried about the extent,

the implementation, and the effect digital transformation will have on their privacy, jobs, and welfare. Business managers will be expected to navigate organizations and employees through this unknown territory of digital transformation and disruption. Imagination, Creativity, and Responsible Management in the Fourth Industrial Revolution is an essential reference source that uses a multidisciplinary approach to examine the concepts of imagination

and creativity, as well as responsible management practices, and their application to the development and use of innovative technologies. This book intends to help readers understand the importance of continuously developing their cognitive skills and to remain responsible and accountable in the new digital era— the Fourth Industrial Revolution. Featuring research on topics that include modes of interaction in the digitalized era, cognitive skills needed and creative

tools to shape the future of work, and knowledge sharing, this book is ideally designed for managers, leaders, decision makers, directors, executives, engineers, entrepreneurs, IT specialists, academics, researchers, students, consultants, and industry professionals.

Engineering Index

Springer-Verlag

Aufgrund des heute

verbreiteten

teamorientierten

Arbeitens wird der

Ingenieur in Entwicklung

und Konstruktion mehr

und mehr in den Planungs-, Beschaffungs- und Produktionsprozess involviert. Zur Bewältigung dieser Aufgaben braucht er neue Methoden der Entscheidungsunterstützung und der Informationsbeschaffung, da die herkömmlichen Ansätze des Produktdatenmanagements nicht ausreichend sind. Neue Strategien für das Product Lifecycle Management enthalten zusätzliche Funktionsumfänge zur Unterstützung der

unternehmensinternen und -externen Zusammenarbeit von Entwicklungspartnern, des Supply Chain Prozesses, des Product Portfolio Management und des Customer Needs Management. Das Buch unterstützt die Planung, Entscheidungsfindung und Einführung geeigneter Lösungskonzepte. *Mastering Disruption and Innovation in Product Management* Springer Science & Business Media This report illustrates how modern process biotechnology is

penetrating industrial operations, and highlights its environmental and

economic advantages over other technologies. It identifies technical and other bottlenecks, but

also emphasizes that industry and governments must act together.