Hermann Lödding

Verfahren der Fertigungssteuerung

Grundlagen, Beschreibung, Konfiguration

3. Auflage





Dietrich Adam

Integrative Production Technology for High-Wage Countries Christian Brecher, 2011-12-17 Industrial production in high wage countries like Germany is still at risk Yet there are many counter examples in which producing companies dominate their competitors by not only compensating for their specific disadvantages in terms of factor costs e g wages energy duties and taxes but rather by minimising waste using synchronising integrativity as well as by obtaining superior adaptivity on alternating conditions In order to respond to the issue of economic sustainability of industrial production in high wage countries the leading production engineering and material research scientists of RWTH Aachen University together with renowned companies have established the Cluster of Excellence Integrative Production Technology for High Wage Countries This compendium comprises the cluster's scientific results as well as a selection of business and technology cases in which these results have been successfully implemented into industrial practice in close cooperation with more than 30 companies of the industrial production sector Proceedings of the 6th CIRP-Sponsored International Conference on Digital Enterprise Technology George Q. Huang, K.L. Mak, Paul G. Maropoulos, 2009-12-12 This Proceedings volume contains articles presented at the CIRP Sponsored Inter tional Conference on Digital Enterprise Technology DET2009 that takes place December 14 16 2009 in Hong Kong This is the 6th DET conference in the series and the first to be held in Asia Professor Paul Maropoulos initiated hosted and chaired the 1st International DET Conference held in 2002 at the University of D ham Since this inaugural first DET conference DET conference series has been s cessfully held in 2004 at Seattle Washington USA in 2006 at Setubal Portugal in 2007 at Bath England and in 2008 at Nantes France The DET2009 conference continues to bring together International expertise from the academic and industrial fields pushing forward the boundaries of research kno edge and best practice in digital enterprise technology for design and manufacturing and logistics and supply chain management Over 120 papers from over 10 countries have been accepted for presentation at DET2009 and inclusion in this Proceedings volume after stringent refereeing process On behalf of the organizing and program committees the Editors are grateful to the many people who have made DET2009 possible to the authors and presenters es cially the keynote speakers to those who have diligently reviewed submissions to members of International Scientific Committee Organizing Committee and Advisory Committee and to colleagues for their hard work in sorting out all the arrangements We would also like to extend our gratitude to DET2009 sponsors co organizers and supporting organizations Robust Manufacturing Control Katja Windt, 2012-12-14 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 Verfahren der Fertigungssteuerung Hermann Lödding, 2016-07-01 Das nunmehr in dritter Auflage vorliegende Buch zeigt auf Grundlage des Hannoveraner Trichtermodells auf welche Stellhebel Unternehmen nutzen k nnen um die Ziele sicher zu erreichen Unternehmen mit hoher Termintreue kurzen Lieferzeiten und niedrigen Best nden wachsen schneller als der Wettbewerb und erzielen h here Gewinne Anwender finden einfache und wirksame Verfahren fr die Unternehmenspraxis Studenten erhalten einen umfassenden berblick ber Ziele Aufgaben und Verfahren der Fertigungssteuerung Das Buch zeichnet sich durch eine berzeugende Systematik sorgf ltige internationale Recherchen transparente Darstellung und unmittelbare Anwendbarkeit aus Ich bin davon berzeugt dass es zu einem Standardwerk der PPS Literatur wird Hans Peter Wiendahl Das Fachgebiet der Fertigungssteuerung wird aus wissenschaftlicher und methodischer Sicht sehr berzeugend aufgearbeitet und dargestellt Sowohl der Wissenschaftler als auch Praktiker werden davon profitieren Peter Nyhuis Advances in Production Research Robert Schmitt, Günther Schuh, 2018-11-19 The papers in this volume present recent and highly relevant topics in the fields of production research as 3D printing additive manufacturing processes agile product development change dynamics in companies configurable material systems data analysis in process optimization future technologies with high potential in value creation global production learning production systems production of the future organization of assemblies resource efficiency in production robotics in assembly and technology trends in machine tools Researchers and practitioners in the field of mechanical engineering and production technology will benefit from this content **Multi-Disciplinary Engineering for Cyber-Physical Production Systems** Stefan Biffl, Arndt Lüder, Detlef Gerhard, 2017-05-06 This book discusses challenges and solutions for the required information processing and management within the context of multi disciplinary engineering of production systems The authors consider methods architectures and technologies applicable in use cases according to the viewpoints of product engineering and production system engineering and regarding the triangle of 1 product to be produced by a 2 production process executed on 3 a production system resource With this book industrial production systems engineering researchers will get a better understanding of the challenges and requirements of multi disciplinary engineering that will guide them in future research

and development activities Engineers and managers from engineering domains will be able to get a better understanding of the benefits and limitations of applicable methods architectures and technologies for selected use cases IT researchers will be enabled to identify research issues related to the development of new methods architectures and technologies for multi disciplinary engineering pushing forward the current state of the art **Advances in The Ergonomics in Manufacturing:** Managing the Enterprise of the Future Stefan Trzcielinski, Waldemar Karwowski, 2020-07-19 Contemporary manufacturing enterprises aim to deliver a great number of consumer products and systems through friendly and satisfying working environments for people who are involved in manufacturing services Meeting the needs of the manufacturing and service sectors of contemporary industry this volume is concerned with the human factors ergonomics and safety issues related to the design of products processes and systems as well as the operation and management of business enterprises This book will be of special value to researchers and practitioners involved in the design of products processes systems and services which are marketed and utilized by a variety of organizations around the world **Deutsche Nationalbibliografie** Fertigungssteuerung Dietrich Adam, 2013-03-08 Zur Zeit erleben wir die dritte Die deutsche Nationalbibliothek, 2008 industrielle Revolution zumindest nach Die dritte industrielle Ansicht einiger Autoren Die Computertechnologie Mikroprozessoren und Revolution rechnergesteuerte Maschinen verandem sowohl die Fertigungsprozesse als auch die gewachsenen Filhrungsstrukturen Die Schlagworte Flexibilitiit und Integration beherrschen heute die Diskussion urn die Fabrik der Zukunft Flexibilitiit in der Produktion kurze Durchlaufzeiten niedrige Kapitalbindung in Bestanden und Liefertreue sind derzeit strategische Wett bewerbsargumente auf gesiittigten Miirkten Neben der Flexibilisierung der Fertigungseinrichtungen und deren effizienter Computer Integrated Steuerung steht die Integration sowohl innerhalb der kaufminnischen wie Manufacturing der technischen Funktionen als auch zwischen beiden Bereichen im Vorder grund des Interesses CIM Computer Integrated Manufacturing oder auch Managing scheint heute der Schlussel zur Zukunft zu sein urn eine rationelle flexible Konstruktion Fertigung und Auftragsabwicklung zu erreichen Das Konzept der Fabrik der Zukunft wirft heute jedoch noch viele ungel6ste Pro GelInderte Steuerungs bleme auf Auf technischer Seite sind das die Forderungen nach einer einheitlichen konzepte und Strategie ftir Datenverarbeitung Datenerhaltung und Kommunikation in einem Fahrungs Gesamtsystem Zudem verlangt die Fabrik der Zukunft zur Steuerung von Kon strukturen struktion Produktion und Auftragsabwicklung veriinderte Steuerungskonzepte **Belastungsorientierte Fertigungssteuerung** Hans-Peter Wiendahl, 1987 Fertigungssteuerung, Fertigungssteuerung, 1985

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