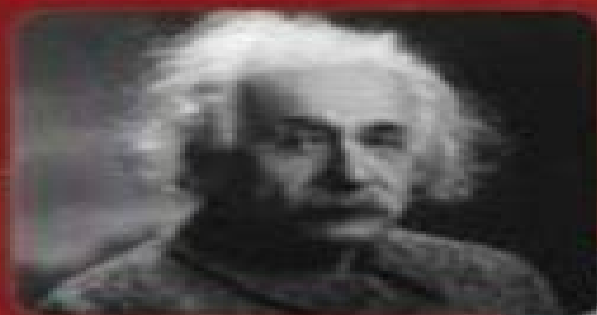


THIRD
EDITION

FACTORY PHYSICS



WALLACE J. HOPP
MARK L. SPEARMAN

Factory Physics Wallace J Hopp Mark L Spearman

Binniger, Marco



Factory Physics Wallace J Hopp Mark L Spearman:

Factory Physics Wallace J. Hopp, Mark L. Spearman, 2011-08-31 Our economy and future way of life depend on how well American manufacturing managers adapt to the dynamic globally competitive landscape and evolve their firms to keep pace. A major challenge is how to structure the firm's environment so that it attains the speed and low cost of high volume flow lines while retaining the flexibility and customization potential of a low volume job shop. The book's three parts are organized according to three categories of skills required by managers and engineers: basics, intuition, and synthesis. Part I reviews traditional operations management techniques and identifies the necessary components of the science of manufacturing. Part II presents the core concepts of the book, beginning with the structure of the science of manufacturing and a discussion of the systems approach to problem solving. Other topics include behavioral tendencies of manufacturing plants, push and pull production systems, the human element in operations management, and the relationship between quality and operations. Chapter conclusions include main points and observations framed as manufacturing laws. In Part III, the lessons of Part I and the laws of Part II are applied to address specific manufacturing management issues in detail. The authors compare and contrast common problems including shop floor control, long range aggregate planning, workforce planning, and capacity management. A main focus in Part III is to help readers visualize how general concepts in Part II can be applied to specific problems. Written for both engineering and management students, the authors demonstrate the effectiveness of a rule-based and data-driven approach to operations planning and control. They advance an organized framework from which to evaluate management practices and develop useful intuition about manufacturing systems.

Factory Physics Wallace J. Hopp, Mark L. Spearman, 2001 Publisher Description *Factory Physics* Wallace J. Hopp, 2011 **Bewertung der Flexibilität automatisierter Materialflusssysteme der variantenreichen Großserienproduktion** Martin Haller, 1999

Reinforcement-Learning zur dispositiven Auftragssteuerung in der Variantenreihenproduktion Frank Stegherr, 2000

Untersuchungen zum Arbeitsfluss in getakteten Bauproduktionssystemen aus Perspektive von

Generalunternehmern Binniger, Marco, 2022-04-27 Ein guter Arbeitsfluss spielt in der Produktion eine maßgebende Rolle hinsichtlich der Produktivität und Effizienz. Im Bauwesen sorgt der Einsatz des Taktes für die Erzeugung des Flusses. Die vorliegende Arbeit nimmt sich dem Fluss und dem Takt im Bauwesen an. Es wird eine Arbeitsflussbewertungsmatrix für getaktete Bauprojekte hergeleitet und 50 Bauprojekte damit untersucht. Es kann ein theoretisches Verbesserungspotential von bis zu 80% hinsichtlich der Arbeitsflusseffizienz aufgezeigt werden. A good workflow plays a crucial role in production in terms of productivity and efficiency. In construction, the use of tact creates flow. The scientific work takes on the flow and tact in construction. A workflow evaluation matrix for tacted construction projects is derived and 50 construction projects are examined with it. A theoretical potential for improvement of up to 80% in terms of workflow efficiency can be demonstrated. With the help of the derived improvement approaches including more Lean oder MES in der Automobilzulieferindustrie

Thorsten Gerberich,2011-06-21 Zwischen Lean und MES bestehen Synergiepotentiale und Widersprüche Thorsten Gerberich entwickelt und testet ein Vorgehensmodell das in den Unternehmen der Automobilzulieferindustrie angewendet werden kann

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Simulationsgestützte Synchronisation der Zeitplanungsparameter für Variantenfertiger Jan Reschke,2019-08-23 Eine Möglichkeit die Prognosegüte der Planung zu verbessern und eine Synchronisation der funktionalen Zielsysteme in Hinblick auf ihre Zeitplanungsgrößen zu ermöglichen stellt die Synchronisierung von Zeitplanungsparametern dar In der vorliegenden Dissertationsschrift wird daher ein Gestaltungskonzept entwickelt welches dabei unterstützt das effiziente Set an Zeitplanungsparametern für Variantenfertiger zu identifizieren und in etablierten betrieblichen Anwendungssystemen zu parametrieren

Integration aspects of simulation: equipment, organization and personnel Gert Zülch,2010 The Practitioner's Guide to POLCA Rajan Suri,2018-04-09 POLCA Paired cell Overlapping Loops of Cards with Authorization is a card based visual control system that manages the flow of jobs through the shop floor at each operation it controls which job should be worked on next to meet delivery targets POLCA ensures that upstream operations use their capacity effectively by working on jobs that are needed downstream while at the same time preventing excessive work in process WIP build ups when bottlenecks appear unexpectedly POLCA is particularly suited to companies manufacturing high mix low volume and customized products Such companies struggle with long lead times late deliveries and daily expediting to meet delivery dates ERP systems are not designed to deal with this highly variable environment and add on software such as Finite Capacity Scheduling systems can require complex installation Also the Kanban system does not work well with low volume or custom production POLCA has delivered impressive results in such environments It does not require any complex software implementation it can be used without an ERP system or it can seamlessly complement an existing ERP system This book Provides a step by step roadmap on how to implement POLCA invaluable for both companies that wish to implement POLCA as well as consultants and academics advising such companies Explains the concepts in practical and easy to understand terms by showing detailed shop floor examples Includes more than 100 illustrations for understanding how POLCA works as well as for elaborating on details of the implementation steps Contains case studies written by company owners and executives documenting their POLCA implementation process and the results achieved in various industries in six countries

Effective Manufacturing Consulting Philip J. Gisi,2025-10-14 This book covers the key aspects of manufacturing consulting from identifying operational inefficiencies to implementing lean practices improvement methodologies and advanced technologies like automation and AI With a focus on real world activities and practical applications the book outlines how consultants assess manufacturing processes engage with clients and develop actionable roadmaps for transformation Readers will discover the

consultant's approach to enhancing production workflows improving quality control managing supply chains and navigating complex challenges such as labor shortages regulatory requirements and shifting market demands The book also delves into strategic decision making change management and fostering a culture of continuous improvement across the shop floor With manufacturing undergoing so many changes consultants must continuously develop their skills and stay current with trends This book will also serve as a resource for both newcomers and seasoned consultants offering advice on consulting techniques industry knowledge and building client relationships This book is intended to serve as a comprehensive resource offering a mix of traditional and cutting edge knowledge tailored to the evolving needs of the industry It provides the practical strategies consultants need to help manufacturers navigate present challenges and future opportunities thereby enhancing their value to clients in an era of constant change

Lean-Driven Innovation Norbert Majerus, 2017-07-27 In 2005 Goodyear's research and development RandD engine was not performing up to its full potential The RandD organization developed high quality tires but the projects were not always successful Goodyear embarked on a major initiative to transform its innovation creation processes by learning understanding and applying lean product development

The Path: Leveraging Operations in a Complex and Chaotic World Shridhar Lolla, 2013-06-11 Experts have called the current pattern of rapid and unpredictable changes in business conditions as the New Normal In order to lead in these conditions it is critical to constantly innovate business at an ever faster pace And to obtain the desired responsive capabilities organizations significantly rely on a process or function called operations They are therefore under an increasing pressure to make Operational Excellence central to their core strategy In their aspirations to achieve superlative operational performance organizations have often rushed to adopt a large variety of tools and techniques However a vast majority of attempts to cut and paste such tools and techniques has made their journey painful exhausting and costly Not surprisingly over 70% of well intended initiatives to achieve breakthrough performance in operations have either stopped midway or given suboptimal results The Path presents a way to achieve dramatic growth on an ongoing basis without taking costly trade offs and burn outs It emphasizes that dealing with the New Normal is not so much about running after an overwhelming number of improvement skill sets rather it is about improving the process of improvement itself According to the book an organization of a reasonable size has enough intuition experience and logic to figure out its own way of Operational Excellence It shows that in today's environment an actionable approach of learning by doing provides a strong option for achieving rapid yet sustainable growth The book is set in an operational warzone and it describes the saga of teams in dealing with the New Normal Since intuition and emotions are hallmark of day to day operations it is written in a semi story driven format and contains operational dialogues between players in the field Notwithstanding its story driven approach The Path attempts to provide a business solution to one of the biggest social evils the skyrocketing cost of medicines It derives its content from the pharmaceutical industry to which every reader is a customer Like the great debate of global warming the book recognizes

the growing tension between drug manufacturers on one hand and governments regulators social media and patients on the other hand It places non availability of drugs at the center of discussion and pinpoints ineffective and inefficient way of doing business as a core problem to the conflict It shows how a high availability of drugs is achieved by dramatically improving operations of pharmaceutical organizations while lowering the cost From the industry domain point of view the book is unique because it moves the popular literature on organizational effectiveness beyond automotive and engineering centric industries By doing so it provides opportunity to professionals to relook into Operational Excellence from a very fundamental level and then build their own way of achieving quick and dramatic growth on an ongoing basis In fact no industry is untouched by the type of changes taking place due to the New Normal although at different and varying intensity The Path is therefore as much applicable to a well matured commodity business as it is to the one in the new product intensive Hi tech industry As a book The Path is also unique in the way it was created In fact it was co created by over 100 professionals online These professionals from different industries have provided insights from their years of experience in making organizations more effective And in doing so they have offered a direction to dramatically improving the way organizations need to operate in today s world

Mass Customization: Concepts - Tools - Realization Thorsten Blecker,2005 **Strategisches und operatives Produktionsmanagement** Jürgen Strohhecker,Andreas Größler,2010-11-01 Der Sammelband ehrt Professor Dr Dr h c Peter Milling zu seinem 65 Geburtstag Er vereint deutsche und internationale Beitr ge die das weite Feld des Produktionsmanagements thematisieren Handbook of Quantitative Supply Chain Analysis David Simchi-Levi,S. David Wu,Zuo-Jun (Max) Shen,2004-05-31 The Handbook is a comprehensive research reference that is essential for anyone interested in conducting research in supply chain Unique features include A focus on the intersection of quantitative supply chain analysis and E Business Unlike other edited volumes in the supply chain area this is a handbook rather than a collection of research papers Each chapter was written by one or more leading researchers in the area These authors were invited on the basis of their scholarly expertise and unique insights in a particular sub area As much attention is given to looking back as to looking forward Most chapters discuss at length future research needs and research directions from both theoretical and practical perspectives Most chapters describe in detail the quantitative models used for analysis and the theoretical underpinnings many examples and case studies are provided to demonstrate how the models and the theoretical insights are relevant to real situations Coverage of most state of the art business practices in supply chain management

Making Apparel Manufacturing Lean Anand K. Deshpande,2021-06-23 I have been a Lean Management Consultant for the past decade and have been asked interesting questions by my prospects clients I d have to say the most made statement has been Lean only works in the Automotive Industry and is not applicable to our industry This misconception is what triggered me to write a book on Lean for the various industries that I consult in i e one book for every industry This book on the application of LEAN in Apparel Manufacturing is my first foray into authoring a book This book is an attempt to educate

its readers on how to implement the practical aspects of LEAN on the shopfloor It begins with the dissemination of the interrelated elements of the Toyota Production System the objective of TPS and its importance in Production Management The concepts of LEAN and waste elimination are then explained with an overview of the Seven Types of Manufacturing Wastes Value Stream Mapping a frequently used tool to map the waste has been elaborated in four chapters These chapters explain concepts like Product Family Matrix KPI definitions guiding principles to design a Lean process and the construction of the AS IS and the TO BE Value Stream Maps Individual chapters are devoted to the elements of TPS like 5S Visual Management Skill Management Process Standardization and Single Minute Exchange of Dies These chapters explain the concepts and their application in detail equipping you with the required tools and techniques The chapter on Balanced Score Card and Hoshin Kanri explains the mechanism of aligning the vision of the factory to the individual objectives The chapters on A3 Problem Solving and Quality Management initiate the readers to a scientific methodology of problem solving We follow up with chapters on Kanban Systems and WIP Management in order to get a sense of Pull systems The chapter on Total Productive Maintenance lays emphasis on measurement of OEE% and the problem solving cascade We end this book with chapters on Shopfloor Control sustaining a Lean culture and providing a Lean Implementation Model for Apparel Manufacturing I would like to extend my gratitude to Deepak Mohindra Chairman Apparel Resources for his continued support and guidance My wife Manali my daughters Aishwarya Arya and my mother Padma have also been my constant motivators I would also like to thank my past and current clients for implementing my advice This book would be incomplete without mentioning Ashish Grover who was a great support during preliminary Lean pilots on the garmenting shopfloor This book is my tribute to him I hope that this book creates more value for you and your organization Wish you all the best in your LEAN journey

Theory of Constraints, Lean, and Six Sigma Improvement Methodology Bob Sproull, 2019-07-09

Many leaders and managers have led improvement initiatives in a variety of different industry sectors Most believe that when they begin these efforts they already have the tools they need in their improvement backpack Using these tools they make substantial improvements to processes in a wide array of industry segments As time passes however most realize that there is a missing link in their arsenal of tools for improvement The author of this book faced this same predicament and he discovered what the missing link was in his improvement tool kit Theory of Constraints TOC Once he learned the details of TOC his ability to make major improvements jettisoned upward to levels he had not seen before TOC is the common denominator in all the case studies presented in this book This book opens with a chapter on what Theory of Constraints is and why it works so well in improvement efforts The second and third chapters cover the important points related to Lean Manufacturing and Six Sigma as well as key points related to variability Chapter 4 demonstrates how to effectively combine these three components to achieve maximum improvement and the corresponding enhancement to your company's profitability The remainder of this book is composed of true case studies from different industry segments using this

integrated improvement methodology Essentially this book lays the foundation for what most practitioners are just beginning to understand this integrated improvement methodology is superior to the three components used in isolation from each other This book presents a step by step method of how to combine the Theory of Constraints Lean and Six Sigma and then demonstrates its effectiveness in a very diverse array of industries *Lean for the Process Industries* Peter L.

King, 2019-06-05 Compared to its widespread implementation across almost all areas of production Lean improvement efforts lag within the process industries While many innovators have successfully applied Lean principles to these industries during the past three decades most of those pioneering efforts were never recorded to guide the improvement efforts of others Drawing on more than 40 years of application experience at one of the world's largest chemical and materials manufacturers coupled with 10 years in private practice Peter King corrects this void by providing the first comprehensive resource written explicitly for change agents within the process industries Focusing on areas where the improvement needs of the process industry differ from parts assembly manufacturing *Lean for the Process Industries Dealing with Complexity* Second Edition Covers each of the eight wastes commonly described in Lean literature looking at how they manifest themselves in process operations Explains how to adapt value stream mapping for process operations Shows how to identify the root causes of bottlenecks and how to manage them to optimize flow until they can be eliminated Provides practical techniques to overcome the barriers which have prevented the application of Cellular Manufacturing to process operations Discusses the role of business leadership in a Lean strategy describing both enabling and counter productive management behaviors Since the publication of the first edition of this book Peter King has been busy consulting with food beverage gasoline additive and nutraceutical companies these new experiences have broadened his perspectives on certain Lean processes and have given him a richer set of examples to discuss in this new edition While Value Stream Mapping is a very powerful tool to understand flow bottlenecks and waste in an operation the traditional format as presented in many other books does not describe all of the data required to fully understand process flow and its detractors This new edition highlights the necessary additions with examples of why they are useful Product wheel scheduling achieves production leveling in a far more comprehensive and effective way than traditional heijunka methods This edition has a more thorough description of the wheel concept and design steps and more examples from actual applications

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