Optimizing Factory Performance Cost Effective Ways To Achieve Significant And Sustainable Improvement

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Focusing on the three primary enemiesof factory performance?complexity, variability,and lackluster leadership?Optimizing FactoryPerformance cuts to the heart of the problem ofless-than-world-class performance and demonstrateshow those enemies manifest themselves incompanies across manufacturing sectors. Ignizioalso explores the insidious effect company politicsand flagging commitment to manufacturing performancehave on competitiveness.

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Optimizing Factory Performance Cost Effective Managing OEE to Optimize Factory Performance and how to use the measurements? in order to optimize the factory performance The goal is to show as OEE is a good base for optimizing the factory performance Moreover OEE's evolu? tions are the perfect response even in advanced frameworks This chapter

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Optimizing Factory Performance: Cost-Effective Ways to ...
5.0 out of 5 stars Optimizing Factory Performance: Cost-Effective Ways to Achieve Significant and Sustainable Improvement (Hardcover) Reviewed in the United States on September 15, 2010 Prof. James Ignizio presents in this book a substantive, objective, and scientific basis to understand factory performance and operation.

Amazon.com: Customer reviews: Optimizing Factory ...
Professor James Ignizio's book (Optimizing Factory Performance) may receive mixed reviews from its readers. Those who might insist that such methods as Lean Manufacturing, Six Sigma, Theory of Constraints, or Reengineering are infallible, have an unlimited scope, and may be applied in isolation (e.g., with little regard to the politics and culture of the organization and/or in lieu of an ...

TQM, Reengineering, Theory of Constraints, JIT, Six Sigma, Lean Manufacturing . . . These are just some of the methods that, over the past five decades, have promised to transform any manufacturing firm into a lean, mean, moneymaking machine. While each incorporates certain fundamental truths, strengths, and benefits, they are not panaceas. Nor do they necessarily provide much-needed insight into the science that underlies factory performance. James Ignizio, Ph.D., an internationally recognized performance optimization expert, believes that only a balanced approach will provide the significant and sustainable improvement required of firms who will survive and prosper in the twenty-first century. In this breakthrough guide, Dr. Ignizio picks up where such concepts as Six Sigma and Lean Manufacturing leave off to provide you with a holistic, three-dimensional approach to mastering the art and science of manufacturing. Focusing on the three primary enemies of factory performance—complexity, variability, and lackluster leadership—Optimizing Factory Performance cuts to the heart of the problem of less-than-world-class performance and demonstrates how those enemies manifest themselves in companies across manufacturing sectors. Ignizio also explores the insidious effect company politics and flagging commitment to manufacturing performance have on competitiveness. Emphasizing the all-important, often overlooked third dimension of manufacturing—factory protocols—Ignizio describes the types of strategicand tactical changes to physical plant and operating procedures any company can make to achieve performance improvements. In addition, he arms you with powerful, original metrics for measuring and comparing factory performance, as well as a set of interactive simulation models, available online at www.mhprofessional.com/ignizio. Running throughout the book is an often amusing, always instructive account of the fictional high-tech firm, Muddle, Inc., which helps support the concepts discussed in the real world of manufacturing, while reinforcing key lessons learned. Read Optimizing Factory Performance and find out how to transform your organization into the kind of fast, agile manufacturer that delivers the right products to the right customers at the right time— every time.

TQM, Reengineering, Theory of Constraints, JIT, Six Sigma, Lean Manufacturing . . . These are just some of the methods that, over the past five decades, have promised to transform any manufacturing firm into a lean, mean, moneymaking machine. While each incorporates certain fundamental truths, strengths, and benefits, they are not panaceas. Nor do they necessarily provide much-needed insight into the science that underlies factory performance. James Ignizio, Ph.D., an internationally recognized performance optimization expert, believes that only a balanced approach will provide the significant and sustainable improvement required of firms who will survive and prosper in the twenty-first century. In this breakthrough guide, Dr. Ignizio picks up where such concepts as Six Sigma and Lean Manufacturing leave off to provide you with a holistic, three-dimensional approach to mastering the art and science of manufacturing. Focusing on the three primary enemies of factory performance—complexity, variability, and lackluster leadership—Optimizing Factory Performance cuts to the heart of the problem of less-than-world-class performance and demonstrates how those enemies manifest themselves in companies across manufacturing sectors. Ignizio also explores the insidious effect company politics and flagging commitment to manufacturing performance have on competitiveness. Emphasizing the all-important, often overlooked third dimension of manufacturing—factory protocols—Ignizio describes the types of strategicand tactical changes to physical plant and operating procedures any company can make to achieve performance improvements. In addition, he arms you with powerful, original metrics for measuring and comparing factory performance, as well as a set of interactive simulation models, available online at www.mhprofessional.com/ignizio. Running throughout the book is an often amusing, always instructive account of the fictional high-tech firm, Muddle, Inc., which helps support the concepts discussed in the real world of manufacturing, while reinforcing key lessons learned. Read Optimizing Factory Performance and find out how to transform your organization into the kind of fast, agile manufacturer that delivers the right products to the right customers at the right time— every time.

Computerized Maintenance Management Systems have evolved over the last three decades from elementary asset tracking and preventive maintenance functionality to enterprise maintenance information systems. A CMMS makes it possible to generate real-time accurate reports about the performance of organization. With the help of CMMS, it become easy to predict which assets will require preventive maintenance improving the business of the organization while reducing costs and increasing profits. CMMS enables to structure work orders efficiently without losing time on excessive paper work and administration. It makes sure that all tasks are in order so that organizations focus on doing the job. This makes the management of organization a lot easier. Through work order schedules, inventory forecasts and other valuable reports to get immediate insights into maintenance needs. This information allows to making better and faster decisions for business giving instant solutions based on real-time data.

The two volumes IFIP AICT 459 and 460 constitute the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2015, held in Tokyo, Japan, in September 2015. The 163 revised full papers were carefully reviewed and selected from 185 submissions. They are organized in the following topical sections: collaborative networks; globalization and production management; knowledge based production management; project management, engineering management, and quality management; sustainability and production management; co-creating sustainable business processes and ecosystems; open cloud computing architecture for smart manufacturing and cyber physical production systems; the practitioner's view on "innovative production management towards sustainable growth"; the role of additive manufacturing in value chain reconfiguration and sustainability; operations management in engineer-to-order manufacturing; lean production; sustainable system design for green products; cloud-based manufacturing; ontology-aided production - towards open and knowledge-driven planning and control; product-service lifecycle management: knowledge-driven innovation and social implications; and service engineering.

This book constitutes the refereed proceedings of the 7th European Lean Educator Conference ELEC 2021, hosted in Trondheim, Norway, in October 2021 and sponsored by IFIP WG 5.7. The conference was held virtually. The 42 full papers presented were carefully reviewed and selected from 82 submissions. They are organized in the following thematic sections: Learning Lean; Teaching Lean in the Digital Era; Lean and Digital; Lean 4.0; Lean Management; Lean Coaching and Mentoring; Skills and Knowledge Management; Productivity and Performance Improvement; New Perspectives of Lean.

The two-volume set IFIP AICT 513 and 514 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2017, held in Hamburg, Germany, in September 2017. The 121 revised full papers presented were carefully reviewed and selected from 163 submissions. They are organized in the following topical sections: smart manufacturing system characterization; product and asset life cycle management in smart factories of industry 4.0; cyber-physical (IIoT) technology deployments in smart manufacturing systems; multi-disciplinary collaboration in the development of smart product-service solutions; sustainable human integration in cyber-physical systems: the operator 4.0; intelligent diagnostics and maintenance solutions; operations planning, scheduling and control; supply chain design; production management in food supply chains; factory planning; industrial and other services; operations management in engineer-to-order manufacturing; gamification of complex systems design development; lean and green manufacturing; and eco-efficiency in manufacturing operations.

Competitive advantage is a key factor to the success of any business in modern society. To achieve this goal, effective strategies for process improvement must be researched and implemented into an organization. The Handbook of Research on Managerial Strategies for Achieving Optimal Performance in Industrial Processes examines optimization techniques for improved business operations and procedures in the industrial sector. Highlighting management techniques, innovative approaches, and technological tools, this publication is an essential reference source for professionals, researchers, consultants, upper-level students, and academicians interested in the advancement of knowledge in industrial communities.

Papers presented at the 2018 International Conference on High Performance and Optimum Design of Structures and Materials are contained in this volume. These papers address issues involving advanced types of structures, particularly those based on new concepts or new materials and their system design. The use of novel materials and new structural concepts nowadays is not restricted to highly technical areas like aerospace, aeronautical applications or the automotive industry, but affects all engineering fields including those such as civil engineering and architecture. Most high performance structures require the development of a generation of new materials, which can more easily resist a range of external stimuli or react in a non-conventional manner. Particular emphasis is placed on intelligent structures and materials as well as the application of computational methods for their modelling, control and management. Optimisation problems discussed in this book involve those related to size, shape and topology of structures and materials. Optimisation techniques have much to offer to those involved in the design of new industrial products. The development of new algorithms and the appearance of powerful commercial computer codes with easy to use graphical interfaces has created a fertile field for the incorporation of optimisation in the design process in all engineering disciplines. The latest developments in design, optimisation, manufacturing and experimentation are highlighted in this book.

The success of any product sold to consumers is based, largely, on the longevity of the product. This concept can be extended by various methods of improvement including optimizing the initial creation structures which can lead to a more desired product and extend the product's time on the market. Design and Optimization of Mechanical Engineering Products is an essential research source that explores the structure and processes used in creating goods and the methods by which these goods are improved in order to continue competitiveness in the consumer market. Featuring coverage on a broad range of topics including modeling and simulation, new product development, and multi-criteria decision making, this publication is targeted toward students, practitioners, researchers, engineers, and academicians.

Metaheuristic optimization is a higher-level procedure or heuristic designed to find, generate, or select a heuristic (partial search algorithm) that may provide a sufficiently good solution to an optimization problem, especially with incomplete or imperfect information or limited computation capacity. This is usually applied when two or more objectives are to be optimized simultaneously. This book is presented with two major objectives. Firstly, it features chapters by eminent researchers in the field providing the readers about the current status of the subject. Secondly, algorithm-based optimization or advanced optimization techniques, which are applied to mostly non-engineering problems, are applied to engineering problems. This book will also serve as an aid to both research and industry. Usage of these methodologies would enable the improvement in engineering and manufacturing technology and support an organization in this era of low product life cycle. Features: Covers the application of recent and new algorithms Focuses on the development aspects such as including surrogate modeling, parallelization, game theory, and hybridization Presents the advances of engineering applications for both single-objective and multi-objective optimization problems Offers recent developments from a variety of engineering fields Discusses Optimization using Evolutionary Algorithms and Metaheuristics

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