

Tpm In Process Industries Tokutaro Suzuki

Do you want to make a difference? There are many ways someone in a leadership role can have a positive impact on the lives of their employees. Perhaps there is no leadership responsibility more profound than creating a sustainable, injury-free workplace. Every person who goes to work expects to return home in the same condition. When someone is hurt, the adverse effects of their injury ripple through the employee's family and friends. Achieving an injury-free environment is one of the most difficult problems many leaders face. Indeed, during 35 years in manufacturing I never discovered a singular solution to this challenge. However, over these years I observed quite a few leadership actions that significantly contributed to less risk-taking, greater hazard awareness and genuine collaborative efforts among employees and supervisors. Leaders who understood, embraced, and implemented these strategies saw a dramatic reduction in incidents and injuries at their facilities. In my experience, organizations with the best safety performances do not have a secret. They simply do a lot of small things collectively and strategically well. That's really what this book is about. It is a collection of leadership concepts, thoughts, words, and actions that (when strategically implemented) can move your organization toward a better safety future. There are no 'silver bullets' here. On the other hand, you don't have to do all of these things to be successful in your safety journey. The first section of the book takes a look at some fundamental concepts everyone who is striving to achieve safety excellence should understand. It includes a discussion on compliance versus commitment, how to develop a safety strategy, why people make mistakes and take risks, and an overview of a Just Culture. The core of the book reviews some key research findings in social psychology, sociology and neuroscience. I share personal experiences of highly effective leadership. And I recount other situations that exemplify the wrong approach. In each case, I discuss how you can leverage these concepts in a practical way to improve your safety leadership skills. Topics include: how our thoughts can drive our behaviors when it comes to safety, how the words we use can be influential on personal decision-making, how social influence and leadership actions can drive safety performance, and how to facilitate the right personal safety conversation. At the end of each chapter, there is a segment called the SAFETY LEADER'S TOOLBOX. This toolbox contains over 70 practical tools and tips for being a more effective safety leader! Readers are encouraged to consult the SAFETY LEADER'S TOOLBOX for small changes in what you think, say, and do to shape your safety culture. I invite you to put on your safety shoes and walk with me. Together we will consider how you can lead your organization to exceptional safety performance. Spoiler alert! One essential leadership skill is knowing why, how, and what to talk about when it comes to safety. Where do you begin? Start with a "Why" of caring. If you start with caring as your personal motive, you won't have to do everything perfectly. Your employees will want to do the right things for the right reasons. You can read this book in chapter order. You can also go to a specific chapter to learn more about a particular topic. Either way, you are encouraged to consult the SAFETY LEADER'S TOOLBOX throughout this book for small changes in what you think, say, or do to shape your safety culture. Choose a set of tools from the TOOLBOX that will enable you to move toward your safety vision. Start making a difference in the lives of others!

This book presents selected papers from the 6th International Conference on Mechanical, Manufacturing and Plant Engineering (ICMMPE 2020), held virtually via Google Meet. It highlights the latest advances in the emerging area, brings together researchers and professionals in the field and provides a valuable platform for exchanging ideas and fostering collaboration. Joining technologies could be changed to manufacturing technologies. Addressing real-world problems concerning joining technologies that are at the heart of various manufacturing sectors, the respective papers present the outcomes of the latest experimental and numerical work on problems in soldering, arc welding and solid-state joining technologies.

*Amazon disrupts everything it touches and upends any market it enters. In the era of its game-changing dominance, how can any company compete? We are just witnessing the start of the radical changes in retail that will revolutionize shopping in every way. As Amazon and other disruptors continue to offer ever-greater value, customers' expectations will continue to ratchet up, making winning (and keeping) those customers all the more challenging. For some retailers, the changes will push customers permanently out of their reach--and their companies out of business. In *The Shopping Revolution*, Barbara E. Kahn, a foremost retail expert and professor at The Wharton School, examines the companies that have been most successful during this wave of change, and offers fresh insights into what we can learn from their ascendance. How did Amazon become the retailer of choice for a large portion of the US population, and how can other companies work with them or compete with them? How did Walmart beat out other grocers in the late 1990s to become the leader in food retailing, and how must they pivot to hold their leadership position today? How did Warby Parker make a dent in the once-untouchable Luxottica's lucrative eyewear business, and what can that tell start-ups about how to unseat a Goliath? How did Sephora draw customers away from once-dominant department stores to become the go-to retailers for beauty products, and what can retailers learn from their success? How are luxury and fast-fashion retailers competing in the ever-changing, fickle world of fashion? Building on these insights, Kahn offers a framework that any company can use to create a competitive strategy to survive and thrive in today's--and tomorrow's--retail environment. *The Shopping Revolution* is a must-read for those in the retailing business who want to develop an effective strategy, entrepreneurs looking at starting their own business, and anyone interested in understanding the changing landscape in which they are shopping. Barbara E. Kahn is Patty and Jay H. Baker Professor of Marketing at The Wharton School at the University of Pennsylvania. She served two terms as the Director of the Jay H. Baker Retailing Center. Prior to rejoining Wharton in 2011, Barbara served as the Dean and Schein Professor of Marketing at the School of Business Administration, University of Miami (from 2007 to 2011). Before becoming Dean at UM, she spent 17 years at Wharton as Silberberg Professor of Marketing. She was also Vice Dean of the Wharton Undergraduate program. She is the author of *Global Brand Power: Leveraging Branding for Long-Term Growth* and co-author of *The Grocery Revolution: The New Focus on the Consumer*, which documented the changes in the grocery business in the mid-1990s when Walmart became a force in the industry.*

Reduce or eliminate costly downtime Short on theory and long on practice, this book provides examples and case studies, designed to provide maintenance engineers and supervisors with a framework for operational strategies and day-to-day management and training techniques that will keep their equipment running at top efficiency.

Oee for Operators

Continuous Improvement for Projects

Implementing TPM

A Revolution in Manufacturing
Physical Asset Management Handbook
Implementing Total Productive Maintenance
The Shopping Revolution

Focusing on the master-slave relationship in Louisiana's antebellum sugarcane country, *The Sugar Masters* explores how a modern, capitalist mind-set among planters meshed with old-style paternalistic attitudes to create one of the South's most insidiously oppressive labor systems. As author Richard Follett vividly demonstrates, the agricultural paradise of Louisiana's thriving sugarcane fields came at an unconscionable cost to slaves. Thanks to technological and business innovations, sugar planters stood as models of capitalist entrepreneurship by midcentury. But above all, labor management was the secret to their impressive success. Follett explains how in exchange for increased productivity and efficiency they offered their slaves a range of incentives, such as greater autonomy, improved accommodations, and even financial remuneration. These material gains, however, were only short term. According to Follett, many of Louisiana's sugar elite presented their incentives with a "facade of paternal reciprocity" that seemingly bound the slaves' interests to the apparent goodwill of the masters, but in fact, the owners sought to control every aspect of the slaves's lives, from reproduction to discretionary income. Slaves responded to this display of paternalism by trying to enhance their rights under bondage, but the constant bargaining process invariably led to compromises on their part, and the grueling production pace never relented. The only respite from their masters' demands lay in fashioning their own society, including outlets for religion, leisure, and trade. Until recently, scholars have viewed planters as either paternalistic lords who eschewed marketplace values or as entrepreneurs driven to business success. Follett offers a new view of the sugar masters as embracing both the capitalist market and a social ideology based on hierarchy, honor, and paternalism. His stunning synthesis of empirical research, demographics study, and social and cultural history sets a new standard for this subject.

Lean manufacturing cannot happen in a factory that lacks dependable, effective equipment. Breakdowns and processing defects translate into excess work-in-process and finished inventory, kept on hand "just in case." Recurring minor stoppages force employees to watch automated equipment that should run by itself. TPM gives a framework for addressing such problems, but many companies implement TPM at a superficial level, and the resulting productivity gains fall short of their potential. If your TPM implementation has resulted in posters and logos rather than a rise of productivity, how are you addressing this halt of progress? In *TPM for the Lean Factory*, authors Sekine and Arai teach you to identify and attack the key equipment-related problems and misunderstandings that make plants miss their lean manufacturing goals. Written for companies with a basic TPM framework already in place, you'll learn three powerful approaches for cutting this waste: The new 5Ss: focusing on standard locations and labeling through the first 2Ss Instant maintenance: mastering quick repairs of minor equipment failures Improved setup operations: organizing the preparation to save time and prevent errors Chapters on cell design, product and process quality factor testing, and daily equipment inspection give you additional weapons for fighting waste and low productivity. For practical application, an implementation overview summarizes the steps for each topic, keyed to a set of 50 adaptable worksheets and examples. A practical and supportive resource, *TPM for the Lean Factory* extends a fresh vision and focus to help you get top results from your TPM efforts.

Merging the benefits of two well-known methodologies, Lean Thinking and Total Productive Maintenance, Lean TPM shows how to secure increased manufacturing efficiency. Based on their experience of working with organisations that have successfully achieved outstanding performance, McCarthy and Rich provide the tools and techniques that convert strategic vision into practical reality. Lean TPM accelerates the benefits of continuous improvement activities within any manufacturing environment by challenging wasteful working practices, releasing the potential of the workforce, targeting effectiveness and making processes work as planned. * Unites world-class manufacturing, Lean Thinking and Total Productive Maintenance (TPM) * Shows how to achieve zero breakdowns * Optimises processes to deliver performance and new products efficiently * Delivers benefit from continuous improvement activities quickly Lean TPM provides a single change agenda for organisations. It will help to develop robust supply chain relationships and to optimise the value generating process. Supported by an integrated route map and comprehensive benchmark data, this book enables engineers, technicians and managers to explore this potent technique fully. * Unites the concepts of world-class manufacturing, Lean and TPM. * Shows how to

accelerate the benefits gained from continuous improvement activities. * Includes an integrated route map for Lean TPM, including benchmark data.

Written by the industrial engineer who developed SMED (single-minute exchange of die) for Toyota, A Revolution in Manufacturing provides a full overview of this powerful just in time production tool. It offers the most complete and detailed instructions available anywhere for transforming a manufacturing environment in ways that will speed up production and make small lot inventories feasible. The author delves into both the theory and practice of the SMED system, explaining fundamentals as well as techniques for applying SMED. The critically acclaimed text is supported with hundreds of illustrations and photographs, as well as twelve chapter-length case studies.

Liquid Lean

Successful Equipment Management at Agilent Technologies

Safety Walk Safety Talk

The Lean Design Guidebook

The Sugar Masters

An Integrated Approach to Just-In-Time

Everything Your Product Development Team Needs to Slash Manufacturing Cost

A practical guidebook for product development teams that describes an integrated cost reduction methodology for new products

A systematic approach to improving production and quality systems, total productive maintenance (TPM) involves all employees through a moderate investment in maintenance. Therefore, a successful TPM implementation requires support of all employees from C-level on down. Total

Productive Maintenance: Strategies and Implementation Guide highlights the

Prins shows how powerful Wall Street bankers partnered with presidents to become the unelected leaders of the 20th century.

TPM in Process IndustriesRoutledge

Mas alla de la produccion a gran escala

Lean Sustainability

Management Begins at the Workplace

The Hidden Alliances that Drive American Power

Tools to Sustain Lean Conversions, Third Edition

Early Equipment Management (EEM)

Introduction to TPM

Si usted quiere entender como se origino el sistema de produccion Toyota y por que tiene exito, debe leer este libro. Aqui encontrara una introduccion avanzada del justo a tiempo. El mundo le debe mucho a Taiichi Ohno. Nos ha demostrado como fabricar con mayor eficacia, como reducir costos, como producir una mayor calidad, y a examinar atentamente como nosotros, en nuestra calidad de seres humanos, trabajamos en una fabrica. El relato que Ohno cuenta en este libro es brillante. Deberia ser leido por todos los gerentes. No es solo un relato acerca de la fabricacion; sino tambien sobre como dirigir exitosamente una empresa.

The five-volume set IFIP AICT 630, 631, 632, 633, and 634 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2021, held in Nantes, France, in September 2021. * The 378 papers presented were carefully reviewed and selected from 529 submissions. They discuss artificial intelligence techniques, decision aid and new and renewed paradigms for sustainable and resilient production systems at four-wall factory and value chain levels. The papers are organized in the following topical sections: Part I: artificial intelligence based optimization techniques for demand-driven manufacturing; hybrid approaches for production planning and scheduling; intelligent systems for manufacturing planning and control in the industry 4.0; learning and robust decision support systems for agile manufacturing environments; low-code and model-driven engineering for production system; meta-heuristics and optimization techniques for energy-oriented manufacturing systems; metaheuristics for production systems; modern analytics and new AI-based smart techniques for replenishment and production planning under uncertainty; system identification for manufacturing control applications; and the future of lean thinking and practice Part II: digital transformation of SME manufacturers: the crucial role of standard; digital transformations towards supply chain resiliency; engineering of smart-product-service-systems of the future; lean and Six Sigma in services healthcare; new trends and challenges in reconfigurable, flexible or agile production system; production management in food supply chains; and sustainability in production planning and lot-sizing Part III: autonomous robots in delivery logistics; digital transformation approaches in production management; finance-driven supply chain; gastronomic service system design; modern scheduling and applications in industry 4.0; recent advances in sustainable manufacturing; regular session: green production and circularity concepts; regular session: improvement models and methods for green and innovative systems; regular session: supply chain and routing management; regular session: robotics and human aspects; regular session: classification and data management methods; smart supply chain and production in society 5.0 era; and supply chain risk management under coronavirus Part IV: AI for resilience in global supply chain networks in the context of pandemic disruptions; blockchain in the operations and supply chain management; data-based services as key enablers for smart products, manufacturing and assembly; data-driven methods for supply chain optimization; digital twins based on systems engineering and semantic modeling; digital twins in companies first developments and future challenges; human-centered artificial intelligence in smart manufacturing for the operator 4.0; operations management in engineer-to-order manufacturing; product and asset life cycle management for smart and sustainable manufacturing systems; robotics technologies for control, smart manufacturing and logistics; serious games analytics: improving games and learning support; smart and sustainable production and supply chains; smart methods and techniques for sustainable supply chain management; the new digital lean manufacturing paradigm; and the role of emerging technologies in disaster relief operations: lessons from COVID-19 Part V: data-driven

platforms and applications in production and logistics: digital twins and AI for sustainability; regular session: new approaches for routing problem solving; regular session: improvement of design and operation of manufacturing systems; regular session: crossdock and transportation issues; regular session: maintenance improvement and lifecycle management; regular session: additive manufacturing and mass customization; regular session: frameworks and conceptual modelling for systems and services efficiency; regular session: optimization of production and transportation systems; regular session: optimization of supply chain agility and reconfigurability; regular session: advanced modelling approaches; regular session: simulation and optimization of systems performances; regular session: AI-based approaches for quality and performance improvement of production systems; and regular session: risk and performance management of supply chains *The conference was held online.

Toyota's world-renowned success proves that just-in-time (JIT) makes other manufacturing practices obsolete. This simple but powerful book is based on the seminars given by Taiichi Ohno and other senior production staff to introduce Toyota's own supplier companies to JIT. It teaches the philosophy and implementation of what many call the most efficient production system in the world. Provides a clear structure for an introductory JIT training program. Explains every aspect of the JIT system, including how to set it up and how to refine it once it's in place. Shows how to use a simple visual system to control the production process. Every day more American companies are learning that JIT works outside Japan. Now you can get started with this step-by-step book which guides you through the implementation process. Every engineer, manager, supervisor, and worker should read this book to get the clearest, simplest, and most complete introduction to JIT available in English. Results at American companies after reading this book: Lead-time on one product was reduced from 12 weeks to 4 days. Setup time on a large blanking press was reduced from eight hours to one minute and four seconds. Work-in-process has been reduced 50 percent plant-wide. Factory floor space was opened up 30 to 40 percent in every one of their plants.

Suzuki, vice chairman of the Japan Institute of Plant Maintenance, the source of the world's most advanced approaches in TPM (total productive maintenance) reveals how companies have changed their thinking about maintenance and developed new methodologies. He provides examples of TPM conversions and activities at companies in several industries not previously described in English, notably the process industry, equipment manufacturing, and office support areas. Originally published in Japan in 1989 and translated by John Loftus. Annotation copyright by Book News, Inc., Portland, OR

The SMED System

Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems

IFIP WG 5.7 International Conference, APMS 2021, Nantes, France, September 5 – 9, 2021, Proceedings, Part IV

Developing Lean Culture in the Process Industries

RCM--Gateway to World Class Maintenance

TPM Development Program

The bestselling guide to Toyota's legendary philosophy and production system—updated with important new frameworks for driving innovation and quality in your business One of the most impactful business guides published in the 21st Century, The Toyota Way played an outsized role in launching the continuous-improvement movement that continues unabated today. Multiple Shingo Award-winning management and operations expert Jeffrey K. Liker provides a deep dive into Toyota's world-changing processes, showing how you can learn from it to develop your own improvement program that fits your conditions. Thanks in large part to this book, managers across the globe are creating workforces and systems that produce the highest-quality products and services, establish and retain customer loyalty, and drive business profitability and sustainability. Now, Liker has thoroughly updated his classic guide to include: Completely revised data and updated information about Toyota's approach to competitiveness in the new world of mobility and smart technology Illustrative examples from manufacturing and service organizations that have learned and improved from the Toyota Way A fresh approach to leadership models The brain science and skills for learning to think scientifically How Toyota applies Hoshin Kanri, a planning process that aligns objectives at all levels and marries them to business strategy Organized into thematic sections covering the various aspects of the Toyota Way—including Philosophy, Processes, People, and Problem Solving—this unparalleled guide details the 14 key principles for building the foundation of a powerful improvement system and managing it for ultimate competitive advantage. With The Toyota Way, you have an inspiration and a model of how to set a direction, continuously improve and learn at all levels, continually "flow" value to satisfy customers, improve your leadership, and get quality right the first time.

'Little Black Book is THE book of the year for working women with drive' Refinery 29 The essential career handbook for creative working women. 'A compact gem' Stylist Little Black Book: A Toolkit For Working Women is the modern career guide every creative woman needs, whether you're just starting out or already have years of experience. Packed with fresh ideas and no-nonsense practical advice, this travel-sized career handbook is guaranteed to become your go-to resource when it comes to building the career you want. Writer Otegha Uwagba (one of Forbes European 30 Under 30) takes you through everything you need to build a successful self-made career: from how to negotiate a payrise to building a killer personal brand, via a crash course in networking like a pro, and tips for overcoming creative block. Plus Little Black Book is full of indispensable advice on how to thrive as a freelancer, and an entire chapter dedicated to helping you master the tricky art of public speaking. With contributions from trailblazing creative women including acclaimed author Chimamanda Ngozi Adichie, Refinery29 co-founder Piera Gelardi, The Gentlewoman's Editor in Chief Penny Martin, and many more, Little Black Book is a curation of essential wisdom and hard-won career insights. Whether you're a thinker, a maker, an artist or an entrepreneur, you'll find plenty of inspiration for your working life here.

TPM (Total Productive Maintenance) is an innovative approach to maintenance. This book introduces TPM to managers and outlines a three-year program for systematic TPM development and implementation. The Just-in-time (JIT) manufacturing system is an internal system in use by its founder, Toyota Motor Corporation, but it has taken on a new look. Toyota Production System, Second Edition systematically describes the changes that have occurred to the most efficient production system in use today. Since the publication of the first edition of this book in 1983, Toyota has integrated JIT with computer integrated manufacturing technology and a strategic information system. The JIT goal of producing the necessary items in the necessary quantity at the necessary time is an internal driver of production and operations management. The addition of computer integrated technology (including expert systems by artificial intelligence) and information systems technology serve to further reduce costs, increase quality, and improve lead time. The new Toyota production system considers how to adapt production schedules to the demand changes in the marketplace while satisfying the goals of low cost, high quality, and timely delivery. The first edition of this book, Toyota Production System, published in 1983, is the basis for this book. It was translated into many languages including Spanish, Russian, Italian, Japanese, etc., and has played a definite role in inspiring production management systems throughout the world.

Creating a Lean Culture

TPM in Process Industries

Innovative Methods and Worksheets for Equipment Management

Autonomous Maintenance in Seven Steps

Toyota Production System

A New Alternative to Total Productive Maintenance (TPM)

Little Black Book

The Japan Institute of Plant Maintenance defines safety as the maintenance of peace of mind. Without peace of mind, or the serenity brought about by a safe working environment, employees will be unwilling and even unable to focus their energies on production improvement. Thus, it can be said that all improvement begins with safety. Winner of a 2013 Shingo Research and Professional Publication Award! A how-to manual on the proper integration of safety and environmental sustainability with Lean implementations, *Lean Sustainability: Creating Safe, Enduring, and Profitable Operations* provides a proven recipe for achieving safety and sustainability excellence. This book is the result of the author's two decades of experience implementing Lean; Safety, Health, and Environmental (SHE); and sustainability processes in the chemical, food, and consumer products industries. It unveils valuable lessons learned and little-known tips for eliminating waste and increasing process efficiency—while reducing safety incidents and the overall impact on the environment. The text illustrates how to use the SHE Pillar as a gateway to continuous improvement, regardless of the improvement methodology you use. Bolstered with proven methodologies and real-world advice, it introduces novel approaches for achieving safety and sustainability excellence, including: Autonomous Safety—supplying employees with the knowledge, skills, and motivation to work safely Triple Zero—the achievement of zero accidents, zero environmental incidents, and zero losses Green Value Stream Mapping—the application of Value Stream Mapping to environmental and sustainability issues Although there are many books on Lean, sustainability, and SHE, few explain how to integrate these dynamic tools. Walking you through this process, this book supplies the tools to create a synergy that will boost efficiencies across all segments of your business. Follow its advice and you'll be on your way to making your organization and employees Lean, green, and serene.

This book provides an understanding of the complexity and comprehensiveness of the total productive maintenance (TPM) process. It supplements works by Japanese authors with guidance and detail on how the TPM process relates to North American plants or facilities.

Process industries have a particularly urgent need for collaborative equipment management systems, but until now have lacked for programs directed toward their specific needs. TPM in Process Industries brings together top consultants from the Japan Institute of Plant Maintenance to modify the original TPM Development Program. In this volume, they demonstrate how to analyze process environments and equipment issues including process loss structure and calculation, autonomous maintenance, equipment and process improvement, and quality maintenance. For all organizations managing large equipment, facing low operator/machine ratios, or implementing extensive improvement, this text is an invaluable resource.

Equipment downtime can bring a lean manufacturing operation to a complete standstill. Total productive maintenance (TPM) is such a fundamental part of becoming lean because a machine failure at one step of a continuous flow process will halt all the steps before and after it. Strategies aimed at eliminating downtime are essential in any operation in which the processes require the use of complex machinery and equipment. TPM: Collected Practices and Cases provides a variety of case studies taken from articles previously published in *Lean Manufacturer Advisor*: the monthly newsletter by Productivity Press.

Overall Equipment Effectiveness

The North American Experience

Equipment Management in the Post-Maintenance Era

Selected articles from ICMMP 2020

A Toolkit for Working Women

Lean TPM

All the Presidents' Bankers

When capital projects fail to deliver, it is usually not due to technical reasons but a combination of behavioral pitfalls, unclear accountabilities and gaps in design, specification, and/or project-management processes. *Early Equipment Management (EEM): Continuous Improvement for Projects* explains how well known and award winning organizations avoid these weaknesses by using: Project road maps setting out clear accountabilities for each step of the concept-to-project-delivery process; Progressive design goals for each step to assure the delivery of low life-cycle costs; Processes to codify tacit knowledge, reveal latent design weaknesses, and build high performance cross-functional team collaboration; Project governance processes that systematically raise their organizations ability to reduce time to market for new assets, products and services with higher added value and fewer resources. Hence the books title of continuous improvement for projects. The word Early in EEM refers to the principle of trapping problems as early as possible in the project process when they are cheapest to resolve. That makes EEM relevant to all projects even those that have past the design stages. To support the use of EEM at any project step, the author has designed each chapter as a standalone topic with cross references to other chapters where relevant. This book:- Explains The six EEM project delivery steps setting out the tasks and accountabilities for project teams, project managers and steering committees at each step; How to organize projects to increase project added value through the collaboration of commercial, operational and technology stakeholders The wiring up behind behaviors that contribute to the failure of traditional project management approaches and how to avoid those pitfalls; The use of projects as a vehicle for the development of internal talent and increase capital project added value The systematic development of internal capabilities to deliver flawless operation from day one in less time with less resources How raising project governance capability directly impacts on company wide management competence Uses case studies to explain how to implement the EEM methodology and Describes how EEM principles and techniques applied to product and service development (Early Product Management) multiplies the gains from EEM. This book shows readers how and why EEM works so that they can design their own EEM road map and continuous improvement process for projects.

Lean manufacturing cannot happen in a factory that lacks dependable, effective equipment. Breakdowns and processing defects translate into excess work-in-process and finished inventory, kept on hand "just in case." Recurring minor stoppages force employees to watch automated equipment that should run by itself. TPM gives a framework for addressing such problems, but many companies implement TPM at a superficial level, and the resulting productivity gains fall short of their potential. If your TPM implementation has resulted in posters and logos rather than a rise of productivity, how are you addressing this halt of progress? In *TPM for the Lean Factory*, authors Sekine and Arai teach you to identify and attack the key equipment-related problems and misunderstandings that make plants miss their

lean manufacturing goals. Written for companies with a basic TPM framework already in place, you'll learn three powerful approaches for cutting this waste: The new 5Ss: focusing on standard locations and labeling through the first 2Ss Instant maintenance: mastering quick repairs of minor equipment failures Improved setup operations: organizing the preparation to save time and prevent errors Chapters on cell design, product and process quality factor testing, and daily equipment inspection give you additional weapons for fighting waste and low productivity. For practical application, an implementation overview summarizes the steps for each topic, keyed to a set of 50 adaptable worksheets and examples. A practical and supportive resource, TPM for the Lean Factory extends a fresh vision and focus to help you get top results from your TPM efforts.

While Lean practices have been successfully implemented into the process industry with excellent results for over 20 years (including the author ' s own award winning example at Exxon Chemical), that industry has been especially slow in adopting Lean. Part of the problem is that the process industry needs its own version of Lean. The larger part of t

Winner of a Shingo Research and Professional Publication AwardThe new edition of this Shingo Prize-winning bestseller provides critical insights and approaches to make any Lean transformation an ongoing success. It shows you how to implement a sustainable, successful transformation by developing a culture that has your stakeholders throughout the o

Strategies and Implementation Guide

Implementing TPM on the Shop Floor

Proven Strategies and Techniques to Keep Equipment Running at Maximum Efficiency

How Successful Retailers Win Customers in an Era of Endless Disruption

TPM for Workshop Leaders

New Directions for TPM

Advances in Material Science and Engineering

Global Logistics and Supply Chain Management is a comprehensive, fully up-to-date introduction to the subject. Addressing both practical and strategic perspectives, this revised and updated fourth edition offers readers a balanced and integrated presentation of Logistics and Supply Chain Management (LSCM) concepts, practices, technologies, and applications. Contributions from experts in specific areas of LSCM provide readers with real-world insights on supply chain relationships, transport security, inventory management, supply chain designs, the challenges inherent to globalization and international trade, and more. The text examines how information, materials, products, and services flow across the public and private sectors and around the world. Detailed case studies highlight LSCM practices and strategies in a wide range of contexts, from humanitarian aid and pharmaceutical supply chains to semi-automated distribution centers and port and air cargo logistics. Examples of LSCM in global corporations such as Dell Computer and Jaguar Land Rover highlight the role of new and emerging technologies. This edition features new and expanded discussion of contemporary topics including sustainability, supply chain vulnerability, and reverse logistics, and places greater emphasis on operations management.

Agilent Technologies, formerly Hewlett-Packard's Test and Measurement Division, operates an integrated circuit fabrication plant in Fort Collins, Colorado. Guided by Masaji Taijiri, the author of 7 Steps to Autonomous Maintenance (see page 34), author Jim Leflar and his team at Agilent developed a complete TPM program for the complex equipment on their shop floor. Drawn from these experiences, Practical TPM is a must read for anyone who wants to begin successful TPM implementation. Part I explains the fundamental concepts of TPM, including the six basic principles of TPM, the goals of TPM, cultural changes resulting from TPM, and the keys to successful implementation. Part II – the heart of the book – describes, in step-by-step detail, the evolution of Agilent's TPM program. Each phase is clearly defined and demonstrated; the working tools and systems developed by the Agilent TPM team in the process are discussed at length. To conclude, Part III focuses on developing a vision and a strategy for your own successful TPM program. Replete with annotated photographs and illustrations documenting Agilent's successful program, Practical TPM: Successful Equipment Management at Agilent Technologies offers an invaluable roadmap to TPM implementation. The book covers: A step-by-step TPM program as implemented at a major US corporation The 5-why analysis method Examples of one-point lessons Using visual controls in a TPM program Tools for understanding equipment failures Improving machine productivity Improvement metrics Master checklists and forms Developing activity boards Appendices containing examples of maintenance training materials For a PDF file with the preface and table of contents click here. For a PDF file with the first chapter click here.

Overall Equipment Effectiveness (OEE) is a crucial measure in TPM that reports on how well equipment is running. It factors three elements ---the time the machine is actually running, the quantity of products the machine is turning out, and the quantity of good output - into a single combined score. Directly addressing those who are best positioned to track and improve the effectiveness of equipment, OEE for Operators defines basic concepts and then provides a systematic explanation of how OEE should be applied to maximize a piece of equipment's productivity and recognize when its efficiency is being compromised. Features

Reliability-Centered Maintenance provides valuable insights into current preventive maintenance practices and issues, while explaining how a transition from the current "preserve equipment" to "preserve function" mindset is the key ingredient in a maintenance optimization strategy. This book defines the four principal features of RCM and describes the nine essential steps to achieving a successful RCM program. There is an easy to follow example illustrating the Classical RCM systems analysis process using the water treatment system for a swimming pool. As well as the use of software in the system analysis process, making a specific recommendation on a software product to use. Additionally, this new edition possesses an appendix devoted to discussing an economic model that has been used successfully to decide the most cost effective use of maintenance. Top Level managers, engineers, and especially technicians who rely on PM programs in their plant operations can't afford to miss this inclusive guide to Reliability-Centered Maintenance. Includes detailed instructions for implementing and sustaining an RCM program for extremely cost effective manufacturing Presents seven real-world cross-industry RCM success case studies that have profited from this plan Provides essential information on how RCM focuses your maintenance organization to become a recognized "center for profit" Offers over 35 accumulated years of the authors' experiences in Lessons Learned for the proper use of RCM (and pitfalls to avoid)

Planters and Slaves in Louisiana's Cane World, 1820--1860

El Sistema de Produccion Toyota

How Small Changes in What You Think, Say, and Do Shape Your Safety Culture

Kanban Just-in Time at Toyota

Creating Safe, Enduring, and Profitable Operations

A Blueprint for Change

Practical TPM

Autonomous maintenance is an especially important pillar of Total Productive Maintenance (TPM) because it enlists the intelligence and skills of the people who are most familiar with factory machines-- equipment operators. Operators learn the maintenance skills they need to know through a seven-step autonomous maintenance program. Most companies in the West stop after implementing the first few steps and never realize the full benefits of autonomous maintenance. This book contains comprehensive coverage of all seven steps--not just the first three or four. It includes: An overview of autonomous maintenance features and checklists for step audits to certify team achievement at each AM step. TPM basics such as the six big losses, overall equipment effectiveness (OEE), causes of losses, and six major TPM activities. An implementation plan for TPM and five countermeasures for achieving zero breakdowns. Useful guidelines and case studies in applying AM to manual work such as assembly, inspection, and material handling. Integrates examples from Toyota, Asai Glass, Bridgestone, Hitachi, and other top companies. By treating machines as partners and taking responsibility for them, you get machines that you can rely on and help maintain an energized and responsive workplace. For companies that are serious about taking autonomous maintenance beyond mere cleaning programs, this is an essential sourcebook and implementation support.

Workshop leaders play a central role in your company's efforts to implement TPM. Once your workers have been divided into small groups to learn the fundamentals of TPM, it is the group leader who spearheads ongoing training and implementation activities. With quick-reading, people-oriented practicality, this new book addresses the role of the workshop leader in maximizing the benefits of TPM. A top TPM consultant in Japan, Kunio Shirose: Incorporates cartoons and graphics to convey the hands-on leadership issues of TPM implementation. Uses case studies to reinforce his ideas on training and managing equipment operators in the care of their equipment. Itemizes specific activities that must be undertaken to search out, correct, and control defects to remedy equipment shortcomings. He also addresses the cooperative relationship necessary between maintenance and production and leaves you with an understanding of the three imperatives for successful TPM implementation to change the quality and functioning of the equipment, the way operators think about equipment, and the workplace. (Originally published by the Japan Management Association.)

Shingo, whose work at Toyota provided the foundation for JIT, teaches how to implement non-stock production in your JIT manufacturing operations. The culmination of his extensive writings on efficient production management and continuous improvement, this book is an essential companion volume to his other landmark books on key elements of JIT, including SMED and poka-yoke. It includes: Fundamental flaws in European and American production philosophies. Basic concepts for improving production systems. The "scientific thinking mechanism" -- a new approach to improvement. Implementing a production method in an age of authorized stock production. Development of production functions in the age of non-stock production. Significance of the different production systems.

Recent advancements in information systems and computer technology have led to developments in equipment and robotic technology that have permanently changed the characteristics of manufacturing equipment. Equipment Management in the Post-Maintenance Era: A New Alternative to Total Productive Maintenance (TPM) introduces a new way of thinking to help high-tech organizations manage an increasingly complex equipment base. It also facilitates the fundamental understanding of equipment management those in traditional industries will need to prepare for the emerging microchip era in equipment. Kern Peng shares insights gained through decades of managing equipment performance. Using a systems model to analyze equipment management, he introduces alternatives in equipment management that are currently gaining momentum in high-tech industries. The book highlights the fundamental internal flaw in maintenance organizational setup, presents new approaches to replace maintenance functional setup, and illustrates a time-tested transformation and implementation process to help transition your organization from the maintenance era to the new post-maintenance era. Breaks down the history of equipment into five phases. Provides a clear understanding of equipment management fundamentals. Introduces alternatives in equipment management beyond the mainstream principles of maintenance management. The book examines maintenance management logistics, including planning and budgeting, training and people development, customer services and management, vendor management, and inventory management. Supplying a comprehensive look at the history of equipment management, it analyzes current maintenance practice and details approaches that can significantly improve the effectiveness and efficiency of your equipment management well into the future.

The Toyota Way, Second Edition: 14 Management Principles from the World's Greatest Manufacturer

Total Productive Maintenance

The Shingo System of Continuous Improvement

Non-Stock Production

TPM: Collected Practices and Cases

TPM for the Lean Factory

Global Logistics and Supply Chain Management