

Chapter 1 Toyota At A Glance

CSR for Purpose, Shared Value and Deep Transformation focuses on a new type of CSR, which includes entrepreneurial innovation, sustainable goals and shared and integrated value in a systems-oriented approach for deep transformation. All topics are backed by case studies, academic literature and future research opportunities.

Originally published in 1999 after a decade of research and extensive interviews with some of Toyota's top executives, this book examines organizational purpose: what it is, how it is crafted, how does it relate to strategy and objectives and how does it relate to decisions and actions that ultimately produce organizational results. The author explains why Toyoto Motor Corporation was selected to study corporate purpose and examines the various factors that influence purpose. An overview is given of Toyota in the 1990s and its operating environment, particularly outlining the importance of the Japanes motor industry to Japanese society. Operational objectives of Toyota are analyzed and research findings, data and analysis related to Toyota's purpose are presented and the implications described. In the appendix, the detail of the research methodology of this study is included.

Written by a recognized leader in the manufacturing industry with nearly two decades of experience working for Toyota, this book supplies a firsthand account of the realities behind implementing the Toyota Production System (TPS). The Toyota Kaizen Continuum: A Practical Guide to Implementing Lean presents authoritative insight on how to use the TP
NEW! Combined Text & Cases Version Considered by many to be the best textbook on Strategy, Contemporary Strategy Analysis 7th edition builds on the strengths of previous editions by introducing students to the core concepts and principles of strategy. In this most accessible strategy text, Robert M. Grant combines clarity of exposition with concentration on the fundamentals of value creation and an emphasis on practicality. In this seventh edition, a greater focus on strategy implementation reflects the needs of firms to reconcile scale economies with entrepreneurial flexibility, innovation with cost efficiency, and globalization with local responsiveness. Rob Grant eloquently combines theory with current real world examples and practice using a clearly written, logical and comprehensive style. Contemporary Strategy Analysis 7th edition is suitable for both MBA and advanced undergraduate students. Full teachings notes to the cases will be available upon publication at the companion website www.contemporarystrategyanalysis.com Contemporary Strategy Analysis 7th Edition is also available in a text only version – ISBN: 9780470747100

Dieses einzigartige Buch beschreibt Toyotas Weg zu einem der weltweit führenden Unternehmen. Toyotas 14 Management-Prinzipien für höchste Qualität und Effizienz, der so genannte "Lean Management"-Ansatz, werden ausführlich und anschaulich beschrieben. Nach dem Lesen des Buches versteht jeder, ob Unternehmer oder Angestellter, warum für den Firmenerfolg neben der richtigen Strategie auch die Unternehmensphilosophie und die Mitarbeiterverantwortung überlebenswichtig sind. Mit dem legendären Toyota-Ansatz aus der Automobilindustrie bringen Sie jedes Unternehmen auf Vordermann. - Geschäftsprozesse nachhaltig beschleunigen - Qualitätsmanagement at its best - Versteckte Kosten minimieren - So schaffen Sie eine Atmosphäre ständiger Verbesserung

The Toyota Way Fieldbook is a companion to the international bestseller The Toyota Way. The Toyota Way Fieldbook builds on the philosophical aspects of Toyota's operating systems by detailing the concepts and providing practical examples for application that leaders need to bring Toyota's success-proven practices to life in any organization. The Toyota Way Fieldbook will help other companies learn from Toyota and develop systems that fit their unique cultures. The book begins with a review of the principles of the Toyota Way through the 4Ps model- Philosophy, Processes, People and Partners, and Problem Solving. Readers looking to learn from Toyota's lean systems will be provided with the inside knowledge they need to Define the

companies purpose and develop a long-term philosophy Create value streams with connected flow, standardized work, and level production Build a culture to stop and fix problems Develop leaders who promote and support the system Find and develop exceptional people and partners Learn the meaning of true root cause problem solving Lead the change process and transform the total enterprise The depth of detail provided draws on the authors combined experience of coaching and supporting companies in lean transformation. Toyota experts at the Georgetown, Kentucky plant, formally trained David Meier in TPS. Combined with Jeff Liker's extensive study of Toyota and his insightful knowledge the authors have developed unique models and ideas to explain the true philosophies and principles of the Toyota Production System.

Most banking institutions suffer from numerous inefficiencies, such as poor planning; inadequate coordination and communication; ineffective processes, tools, and workflow; and excessive bureaucracy. Lean for Banks describes in easy language how to use Lean and Six Sigma management practices to significantly improve the efficiency of bank operations. This book shows how to use Lean and Six Sigma management practices to improve the normal daily work in a bank, typically executed in the so-called "back offices." This work involves about 90 percent of bank employees and generates 90 percent of costs. Lean for Banks explains how to organize bank operations better, increase work productivity and quality by working smarter and not harder, make fewer mistakes and decrease rework, and elevate jobs from mundane and repetitive to creative and pleasantly challenging. Most importantly, it shows how to increase the satisfaction of bank customers and in turn enhance bank competitiveness and market share. Lean for Banks is intended for all levels of bank employees: back-office workers, first-level supervisors, middle- and higher-level managers, and corporate executives. It is also intended for all levels of students at schools that teach banking skills—short courses intended for tellers, college courses in advanced banking operations, and continuing education for bank managers and line employees. This book is an entry-level text on Lean and should give readers enough understanding to prepare them for active participation in Lean deployment activities.

Manufacturing managers are still focused on the short-term tactical issues related to their business. Strategic issues tend to receive less attention. However, manufacturing can play an important strategic role. This book helps managers consider the strategic roles their operations can play and to provide guidance as to what actions can be taken.

This text uses a case-based approach to share knowledge and techniques on how to operationalize much of the theoretical underpinnings of hospital quality and safety. Written and edited by leaders in healthcare, education, and engineering, these 22 chapters provide insights as to where the field of improvement and safety science is with regards to the views and aspirations of healthcare advocates and patients. Each chapter also includes vignettes to further solidify the theoretical underpinnings and drive home learning. End of chapter commentary by the editors highlight important concepts and connections between various chapters in the text. Patient Safety and Quality Improvement in Healthcare: A Case-Based Approach presents a novel approach towards hospital safety and quality with the goal to help healthcare providers reach zero harm within their organizations.

This book develops a new model for lean management. The intent is to demonstrate a model framework consisting of four critical components: leadership, culture, team and tools. The development of the model and these four components will be built from empirical theories reported in the research literature and in successful applications. This framework will offer a path to develop lean leaders with practical, actionable guidelines. The model framework is suited to broad applications offering practical guidelines for manufacturing and service environments alike. The lean model will develop each of these four components, explaining their relevance and importance for guiding internal lean initiatives. In developing the model, the

text will chronicle the historical development of lean noting the significant lean contributions, contributors, and dates of these contributions. This development will trace contributions to the practice of lean back hundreds of years, prior to the contributions of Henry Ford and the contributors from the Toyota system in the 1950's. The future of Lean will also be examined with the current topic of sustainability and how it has extended lean concepts with an external focus towards product life cycle concerns and social issues. This offering is different from competing offerings in three fundamental ways. First, it offers and develops of a comprehensive lean model based on a sound framework. Second, it examines a comprehensive timeline of significant lean contributions and their contributors. Third, it extends lean by looking at the future applications in the area of sustainability.

The first in-depth analysis of the independent director in Asia: who they are, what they do and how they are regulated.

COMMEMORATING THE 100th BIRTHDAY OF TAIICHI OHNO Businesses worldwide are successfully implementing the Toyota Production System to speed up processes, reduce waste, improve quality, and cut costs. While there is widespread adoption of TPS, there is still much to be learned about its fundamental principles. This unique volume delivers a clear, concise overview of the Toyota Production System and kaizen in the very words of the architect of both of these movements, Taiicho Ohno, published to mark what would have been his 100th birthday. Filled with insightful new commentary from global quality visionaries, Taiichi Ohno's Workplace Management is a classic that shows how Toyota managers were taught to think. Based on a series of interviews with Ohno himself, this timeless work is a tribute to his genius and to the core values that have made, and continue to make, Toyota one of the most successful manufacturers in the world. "Whatever name you may give our system, there are parts of it that are so far removed from generally accepted ideas (common sense) that if you do it only half way, it can actually make things worse." "If you are going to do TPS you must do it all the way. You also need to change the way you think. You need to change how you look at things." -- Taiichi Ohno "This book brings to us Taiichi Ohno's philosophy of workplace management--the thinking behind the Toyota Production System. I personally get a thrill down my spine to read these thoughts in Ohno's own words." -- Dr. Jeffrey Liker, Director, Japan Technology Management Program, University of Michigan, and Author, The Toyota Way Based on a series of interviews with Taiicho Ohno, this unique volume delivers a clear, concise overview of the Toyota Production System and kaizen in the very words of the architect of both of these movements, published to mark what would have been his 100th birthday. INCLUDES INSIGHTFUL NEW COMMENTARY FROM: Fujio Cho, Chairman of Toyota Corporation Masaaki Imai, Founder of the Kaizen Institute Dr. Jeffrey Liker, Director, Japan Technology Management Program, University of Michigan, and author John Shook, Chairman and CEO of the Lean Enterprise Institute Bob Emiliani, Professor, School of Engineering and Technology, Connecticut State University Jon Miller, CEO of the Kaizen Institute The Missing Link to Toyota-Style Success—LEAN LEADERSHIP Winner of the 2012 Shingo Research and Professional Publications Award "This great book reveals the secret ingredient to lean success: lean leadership. Not only is it a pleasure to read, but it is also deep and enlightening. This book is an absolute must-read for anyone interested in lean: it's both an eye opener and a game changer." —Michael Ballé, Ph.D., coauthor of The Gold Mine and The Lean Manager "This will immediately be recognized as the most important book ever published to understand and guide 'True North Lean' and the goal of perpetual business excellence." —Ross E. Robson, President and CEO, DnR Lean, LLC, and the original Director of The Shingo Prize "An excellent book that will shape leadership development for decades to come." —Karen Martin, Principal, Karen Martin & Associates, and author of The Kaizen Event Planner About the Book: TOYOTA. The name signifies greatness— world-class cars and game-changing business thinking. One key to the Toyota Motor Company's unprecedented success

is its famous production system and its lesser-known product development program. These strategies consider the end user at every turn and have become the model for the global lean business movement. All too often, organizations adopting lean miss the most critical ingredient—lean leadership. Toyota makes enormous investments in carefully selecting and intensively developing leaders who fit its unique philosophy and culture. Thanks to the company's lean leadership approach, explains Toyota Way author Jeffrey Liker and former Toyota executive Gary Convis, the celebrated carmaker has set into motion a drive for continuous improvement at all levels of its business. This has allowed for: Constant growth: Toyota increased profitability for 58 consecutive years—slowing down only in the face of 2008's worldwide financial difficulties, the recall crisis, and the worst Japanese earthquake of the century. Unstoppable inventiveness: Toyota's approach to innovative thinking and problem solving has resulted in top industry ratings and incredible customer satisfaction, while allowing the company to weather these three crises in rapid succession and to come out stronger. Strong branding and respect: Toyota's reputation was instrumental in the company's ability to withstand the recalls-driven media storm of 2010. But what looked to some to be a sinking ship is once again running under a full head of steam. Perhaps the Toyota culture had weakened, but lean leadership was the beacon that showed the way back. In fact, writes Liker, the company is "as good and perhaps a better model for lean leadership than it ever has been." of innovation and growth. Yet, Industry Week reports that just 2 percent of companies using lean processes can likewise claim to have had long-term success. What the other 98 percent lack is unified leadership with a common method and philosophy. If you want to get lean, you have to take it to the leadership level. The Toyota Way to Lean Leadership shows you how.

Worse than bad. Hotter than hot. These are the bad boys of the Harrison Street Crew, and they answer to no one. They take what they want. And what they want is you. Volume One of a three-part volume by Katana Collins. Patrick Flanagan lives outside the law. The cops don't like him. The law doesn't trust him. He may come at you with a charm and a handsome smile, but make no mistake—he's as reckless and bad as they come. But when a total bombshell with stilettos and a power suit comes blazing into his life, this bad boy is about to be so, so good...

In 1986, Mayumi left Japan with a bicycle to flee from constraints of life as a Japanese girl. Without a plan nor travelling experiences, she kept pedalling around the globe – during the final epoch of the Cold War – for about 35,000 kilometres, facing various kinds of difficulties and taking advantage of people's goodwill. This is the travel story of about the first half of her drifting passage, from Japan up to the last stop in South America – Brazil – in which there are clues to interpret the enigma of Japan and Japanese as well as a cross section of Latin America in the Cold War era.

The contribution of culture to organizational performance is substantial and quantifiable. In *The Culture Cycle*, renowned thought leader James Heskett demonstrates how an effective culture can account for 20-30% of the differential in performance compared with "culturally unremarkable" competitors. Drawing on decades of field research and dozens of case studies, Heskett introduces a powerful conceptual framework for managing culture, and shows it at work in a real-world setting. Heskett's "culture cycle" identifies cause-and-effect relationships that are crucial to shaping effective cultures, and demonstrates how to calculate culture's economic value through "Four Rs": referrals, retention, returns to labor, and relationships. This book: Explains how culture evolves, can be shaped and sustained, and serve as the organization's "internal brand."

Shows how culture can promote innovation and survival in tough times. Guides leaders in linking culture to strategy and managing forces that challenge it. Shows how to credibly quantify culture's impact on performance, productivity, and profits. Clarifies culture's unique role in mission-driven organizations. A follow-up to the classic *Corporate Culture and Performance* (authored by Heskett and John Kotter), this is the next indispensable book on organizational culture. "Heskett (emer., Harvard Business School) provides an exhaustive examination of corporate policies, practices, and behaviors in organizations." *Summing Up: Recommended*. Reprinted with permission from CHOICE, copyright by the American Library Association.

An environmental business book written by a business school professor for business school students.

Ziel des Toyota-Produktionssystems ist die optimale Nutzung von Ressourcen jeglicher Art. Dies kann nur gelingen, wenn Qualifikation der Mitarbeiter, Verfügbarkeit der Maschinen und die im Prozess erzeugten Zwischenprodukte sehr hohen Standards genügen. Wie dies zu erreichen ist, beschreibt Taiichi Ohno anschaulich und praxisnah. Diese neue Auflage wird um ein aktuelles Vorwort des Toyota-Experten Mike Rother ergänzt.

Corporations have a huge influence on the life of every citizen—this book offers a visionary but practical plan to give every citizen a say in how corporations are run while also gaining some supplemental income. It lays out a clear approach that uses the mechanisms of the private market to hold corporations accountable to the public. This would happen through the creation of what the authors call the Universal Fund, a kind of national, democratic, mega mutual fund. Every American over eighteen would be entitled to a share and would participate in directing its share voting choices. Corporations and wealthy individuals would donate stocks, bonds, cash, or other assets to the fund just like they do to other philanthropic ventures now. The fund would pay out dividends to its citizen-shareholders that would grow as the fund grows. The Universal Fund is undoubtedly a big idea, but it is also eminently practical: it uses the tools of capitalism, not government, to give all citizens a direct influence on corporate actions. It would be a major institutional investor beholden not to a small elite group of stockholders pushing for short-term gain but to everyone. The fund would reward corporations that made sure their actions didn't harm people, communities, and the environment, and it would enable them to invest in innovations that would take more than a few months to pay off. Which is another reason corporations would donate to the fund—they could be freed from the constant pressure to maximize their quarterly share price and would essentially be subsidized for doing good. The authors demonstrate that our current economic rules force corporations to be shortsighted and even destructive because for most large investors, nothing matters but share price. The Universal Fund is designed to be a powerful positive balancing force, making the world a better place and the United States a better nation.

Question Reality is an arduous journey of re-organization of the mind of an anorexic, academic female in fight for her own physical and mental survival. In the process, she re-invents the wheel of ecology and science, in consideration of human interactions with the environment. Written in a synergistic, humorous dialogue between two graduate students--Terra the Biogeek and Buz the Geobum--who venture on a fictional road trip up the California Coastline. Part 1 of a two-part edition.

Firing on All Cylinders is based on the experiences of hundreds of public sector and business organizations improving their service/quality to master a rapidly changing world. This book brings together three organizational performance fields that have, until now, been distinct and separate. These are: 1. Customer Service - developing high perceived value and responsiveness 2. Quality Improvement - reducing defects and mistakes while increasing productivity through improved process and system control 3. Organization Development - building leadership skills and sustaining cultural change

Nahmias and Olsen skillfully blend comprehensive coverage of topics with careful integration of mathematics. The authors' decades of experience in the field contributed to the success of previous editions; the eighth edition continues the long tradition of excellence. Clearly written, reasonably priced, with an abundance of expertly formulated practice problems and updated examples, this textbook is essential reading for analyzing and improving all facets of operations. Some of the material in the newest edition has been reorganized. For example, the first chapter introduces service strategy, the product/process matrix and flexible manufacturing systems, benchmarking, the productivity frontier, the innovation curve, and lean production as a strategy. The focus is slightly more international. The analysis of capacity growth planning now appears in the chapter on supply chain analytics. Aggregate planning details were added to chapter 3, including chase and level strategies in an appendix to the chapter. There is an expanded discussion on risk pooling in the chapter on supply chain strategy. The mechanics behind lean production are included in the chapter on push and pull production systems. The chapter on quality and assurance downplays sampling in favor of discussions of quality management, process capability, and the waste elimination side of lean. The separate chapter on facilities layout and location was eliminated and the information redistributed throughout the text. The authors reinforce the learning process through key points at the beginning of each chapter to guide the reader, snapshots that provide useful examples of applications to businesses, and historical notes that provide a context for the topics discussed. Production and Operations Analytics, 8/e provides the tools for adapting to the dynamic global marketplace.

The ninth edition of award-winning author Jeffrey Pommerville's classic text provides nursing and allied health students with a firm foundation in microbiology, with an emphasis on human disease. An educator himself, Dr. Pommerville incorporates accessible, engaging pedagogical elements and student-friendly

ancillaries to help students maximize their understanding and retention of key concepts. Ideal for the non-major, the ninth edition includes numerous updates and additions, including the latest disease data and statistics, new material on emerging disease outbreaks, an expanded use of concept maps, and many other pedagogical features. With an inviting "Learning Design" format and Study Smart notes to students, Alcamo's Fundamentals of Microbiology, Ninth Edition ensures student success as they delve into the exciting world of microbiology.

An overview of engineering systems that describes the new challenges posed for twenty-first-century engineers by today's highly complex sociotechnical systems. Engineering, for much of the twentieth century, was mainly about artifacts and inventions. Now, it's increasingly about complex systems. As the airplane taxis to the gate, you access the Internet and check email with your PDA, linking the communication and transportation systems. At home, you recharge your plug-in hybrid vehicle, linking transportation to the electricity grid. Today's large-scale, highly complex sociotechnical systems converge, interact, and depend on each other in ways engineers of old could barely have imagined. As scale, scope, and complexity increase, engineers consider technical and social issues together in a highly integrated way as they design flexible, adaptable, robust systems that can be easily modified and reconfigured to satisfy changing requirements and new technological opportunities. Engineering Systems offers a comprehensive examination of such systems and the associated emerging field of study. Through scholarly discussion, concrete examples, and history, the authors consider the engineer's changing role, new ways to model and analyze these systems, the impacts on engineering education, and the future challenges of meeting human needs through the technologically enabled systems of today and tomorrow.

How-to guidance for optimizing incumbent technologies to deliver a better product and gain competitive advantage Their zip codes are far from Silicon Valley. Their SIC codes show retail, automobile or banking. But industry after industry is waking up to the opportunity of "smart" products and services for their increasingly tech-savvy customers. Traditionally technology buyers, they are learning to embed technology in their products and become technology vendors. In turn, if you analyze Apple, Google, Amazon, Facebook, Twitter and eBay, you marvel at their data centers, retail stores, application ecosystems, global supply chains, design shops. They are considered "consumer" tech but have better technology at larger scale than most enterprises. The old delineation of technology buyer and vendor is obsolete. There is a new definition for the technology elite - and you find them across industries and geographies. The 17 case studies and 4 guest columns spread through The New Technology Elite bring out the elite attributes in detail. Every organization will increasingly be benchmarked against these elite - and soon will be competing against them. Contrasts the productivity that Apple, Google and others have demonstrated in the last decade to that of the average enterprise technology group Reveals how

to leverage what companies have learned from Google, Apple, Amazon.com, and Facebook to your company's advantage Designed for business practitioners, CEOs, CFOs, CIOs, technology vendors, venture capitalists, IT consultants, marketing executives, and policy makers Other titles by Vinnie Mirchandani: The New Polymath: Profiles in Compound-Technology Innovations If you're looking to encourage technology innovation, look no further. The New Technology Elite provides the building blocks your company needs to become innovative through incumbent technologies.

As changing customer demands and shifting world markets continue to put a strain on businesses in all sectors, your business needs every advantage to stay competitive. Many people may think of Lean processes as suitable only for the manufacturing floor, but that couldn't be further from the truth. Safety Performance in a Lean Environment: A Guide to Building Safety into a Process demonstrates how Lean tools can eliminate waste in your safety program, making it an important piece not only in keeping your organization safe but also in keeping it globally competitive. Written by safety pro Paul F. English, this book explores tools such as Lean manufacturing, DMAIC processes, and Kepner-Trego problem solving and how to use them to increase efficiency and eliminate waste in safety programs. He goes on to discuss value-based management, a technique identified as a leading business model for any organization wanting to catch "The Toyota Way." These processes help you build, incorporate, and sustain a safety program and understand how to get and maintain a foothold for the safety program in times of change. Here's what you get: Real safety solutions for a Lean environment Methods for setting up standard work for EHS professionals How-tos for JSA and pre-task analysis to help develop standardized work Tips and tricks that everyone can use to jump start a stalled safety program No book currently on the market discusses Lean manufacturing or Six Sigma processes and links them to the occupational safety or environmental science. Yet these are the areas where the need for Lean processes is becoming acute. English demonstrates how to anticipate paradigm shifts in management models and how environmental health and safety fits into the model. He defines what adds value to the safety and manufacturing process as well as to the customer. These changes may include a change in daily, weekly or monthly metrics that can help or harm a safety program. Defining what adds value to the safety and manufacturing process and the customer helps you understand how to build safety into a process, creating a strong safety program. Cultures in Conversation introduces readers to the ethnographic study of intercultural and social interactions through the analysis of conversations in which various cultural orientations are operating. Author Donal Carbaugh presents his original research on conversation practices in England, Finland, Russia, Blackfeet County, and the United States, demonstrating how each is distinctive in its communication codes--particularly in its use of symbolic meanings, forms of interaction, norms, and motivational themes. Examining conversation in this way

demonstrates how cultural lives are active in conversations and shows how conversation is a principal medium for the coding of selves, social relationships, and societies. Representing 20 years of research, this volume offers unique insights into the ways social interactions not only gain shape from, but also are formative of cultures. It makes a significant contribution to communication scholarship, and will be illuminating reading in courses focusing on cultural communication, language and social interaction, intercultural pragmatics, and linguistics.

This accessible, practice-oriented and compact text provides a hands-on introduction to the principles of market research. Using the market research process as a framework, the authors explain how to collect and describe the necessary data and present the most important and frequently used quantitative analysis techniques, such as ANOVA, regression analysis, factor analysis, and cluster analysis. An explanation is provided of the theoretical choices a market researcher has to make with regard to each technique, as well as how these are translated into actions in IBM SPSS Statistics. This includes a discussion of what the outputs mean and how they should be interpreted from a market research perspective. Each chapter concludes with a case study that illustrates the process based on real-world data. A comprehensive web appendix includes additional analysis techniques, datasets, video files and case studies. Several mobile tags in the text allow readers to quickly browse related web content using a mobile device.

New industrial centres are emerging in the so-called BRIC countries (Brazil, Russia, India, and China), where large numbers of plants have been constructed in recent years, creating many manufacturing jobs. But what does industrial work look like in these locations? Up until now, much of the interest in developing country industrialization has concentrated on the poor working conditions that characterize some export-oriented sectors in emerging economies, most notoriously in the garment industry. In contrast, the concern of this book is with the modern facilities of multinational or local manufacturers that reflect aspirations for a process of industrial upgrading that might foreshadow the future for these countries. The book provides an analysis of work, its context, and the situation of employees in plants in the BRICs focussing on three main questions: What differences and common features can be ascertained in a comparison both of countries and firms in terms of workplace HR management and production systems? What evidence is there for either a 'high road' or 'low road' developmental path in the BRICs? How are corporate standards implemented in these local contexts? The book addresses an academic audience as well as managers and trade unionists. For the former, it offers a systematic comparison of the four countries and the companies under study. For the latter, it offers a vivid account of challenges the companies face in the BRIC countries as well as the solutions adopted by the companies.

Design for Manufacturability: How to Use Concurrent Engineering to Rapidly Develop Low-Cost, High-Quality Products for Lean Production shows how to use concurrent engineering teams to design products for all aspects of manufacturing with the lowest

cost, the highest quality, and the quickest time to stable production. Extending the concepts of design for manufacturability to an advanced product development model, the book explains how to simultaneously make major improvements in all these product development goals, while enabling effective implementation of Lean Production and quality programs. Illustrating how to make the most of lessons learned from previous projects, the book proposes numerous improvements to current product development practices, education, and management. It outlines effective procedures to standardize parts and materials, save time and money with off-the-shelf parts, and implement a standardization program. It also spells out how to work with the purchasing department early on to select parts and materials that maximize quality and availability while minimizing part lead-times and ensuring desired functionality. Describes how to design families of products for Lean Production, build-to-order, and mass customization Emphasizes the importance of quantifying all product and overhead costs and then provides easy ways to quantify total cost Details dozens of design guidelines for product design, including assembly, fastening, test, repair, and maintenance Presents numerous design guidelines for designing parts for manufacturability Shows how to design in quality and reliability with many quality guidelines and sections on mistake-proofing (poka-yoke) Describing how to design parts for optimal manufacturability and compatibility with factory processes, the book provides a big picture perspective that emphasizes designing for the lowest total cost and time to stable production. After reading this book you will understand how to reduce total costs, ramp up quickly to volume production without delays or extra cost, and be able to scale up production rapidly so as not to limit growth.

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