

Chapter Two The Lean Manufacturing System Rand

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Military Airframe Costs - Obaid Younossi 2001

In recent years, a number of attempts have been made to estimate the cost of future weapon systems toward the goal of optimizing acquisition policy. This report focuses specifically on the effects of material mix, manufacturing techniques, and geometric part complexity on the cost of military airframes. It begins by offering background information on those materials that are most critical to airframe manufacture and on the relative advantages of both traditional and evolving part fabrication techniques. It then proceeds to a quantitative analysis of the cost implications of various materials and manufacturing techniques on airframe production, drawing both from an industry survey and from analysis of industry data. The data thus derived are then integrated with those of a comprehensive historical database. The report concludes that composites, while offering a number of advantages over metals in airframe manufacture, are generally associated with higher costs across a range of categories. At the same time, it concludes that while new manufacturing technologies hold the potential to diminish airframe manufacturing costs, the increased airframe complexity of future fighter aircraft may well offset this advantage. The report recommends that cost analysts remain abreast of changes in industry practice so that they may more accurately gauge the potential effects of such changes on future airframe costs.

Lean Six Sigma for Small and Medium Sized Enterprises - Jiju Antony 2017-12-19

It is no secret that Lean Six Sigma (LSS) is not as popular with small and medium-sized enterprises (SMEs) as it is with larger ones. However, many SMEs are suppliers to larger entities who are pushing for superior quality and world-class process efficiencies from suppliers. *Lean Six Sigma for Small and Medium Sized Enterprises: A Practical Guide* provides a roadmap for the successful implementation and deployment of LSS in SMEs. It includes five real-world case studies that demonstrate how LSS tools have been successfully integrated into LSS methodology. Simplifying the terminology and methodology of LSS, this book makes the implementation process accessible. Supplies a general introduction to continuous improvement initiatives in SMEs Identifies the key phases in

the introduction and development of LSS initiatives within an SME Details the most powerful LSS tools and techniques that can be used in an SME environment Provides tips on how to make the project selection process more successful This book covers the fundamental challenges and common pitfalls that can be avoided with successful introduction and deployment of LSS in the context of SMEs. Systematically guiding you through the application of the Six Sigma methodology for problem solving, the book devotes separate chapters to the most appropriate tools and techniques that can be useful in each stage of the methodology. Keeping the required math and statistics to a minimum, this practical guide will help you to deploy LSS as your prime methodology for achieving and sustaining world-class efficiency and effectiveness of critical business processes.

Lean IT - Steven C Bell 2016-04-19

Winner of a Shingo Research and Professional Publication Award Information Technology is supposed to enable business performance and innovation, improve service levels, manage change, and maintain quality and stability, all while steadily reducing operating costs. Yet when an enterprise begins a Lean transformation, too often the IT department is either left out or viewed as an obstacle. What is to be done? Winner of a 2011 Shingo Research and Professional Publication Award, this book shares practical tips, examples, and case studies to help you establish a culture of continuous improvement to deliver IT operational excellence and business value to your organization. Praise for: ...will have a permanent place in my bookshelf. —Gene Kim, Chief Technology Officer, Tripwire, Inc. ... provides an unprecedented look at the role that Lean IT will play in making this revolutionary shift and the critical steps for sustained success. —Steve Castellanos, Lean Enterprise Director, Nike, Inc. Twenty years from now the firms which dominate their industries will have fully embraced Lean strategies throughout their IT organizations. —Scott W. Ambler, Chief Methodologist for Agile and Lean, IBM Rational ... a great survival manual for those needing nimble and adaptive systems. —Dr. David Labby, MD, PhD, Medical Director and Director of Clinical Support and Innovation, CareOregon ... makes a major contribution in an often-

ignored but much-needed area. —John Bicheno, Program Director MS in Lean Operations, Cardiff University ... a comprehensive view into the world of Lean IT, a must read! —Dave Wilson, Quality Management, Oregon Health & Science University

Air Force Manpower Determinants - Albert A. Robbert 2020-08-30

The authors examine the process the Air Force uses to determine manpower requirements, compare it with processes used in other services and organizations, and evaluate options for increasing the efficiency of the Air Force process.

Handbook of Research on Design and Management of Lean Production Systems - Modrák, Vladimír 2014-01-31

"This book explores the recent advancements in the areas of lean production, management, and the system and layout design for manufacturing environments, capturing the building blocks of lean transformation on a shop floor level"--

Beyond the Lean Revolution - Deborah J. Nightingale 2011

Most organizations are engaged in change efforts—often focused solely on eliminating waste in specific departments or "silos." That's the "lean paradigm," and while it's a good place to start, enterprise transformation goes much further. It begins with the big picture: What are the strategic objectives? How is the enterprise performing against those objectives? How should it be? Who are the stakeholders and what do they value? Then it moves forward toward an audacious vision of the enterprise's future. Based on years of research and implementation, *Beyond the Lean Revolution* provides a roadmap for achieving sustainable, bottom-line results, delivering value to stakeholders, and reaching that future vision. Filled with illuminating examples, the book moves well beyond traditional lean thinking, showing readers how to: Ensure senior leadership commitment * Assess the enterprise's current state * Analyze stakeholder values * Develop a future vision * Create a plan for transformation From inception to implementation and beyond, this book provides a holistic framework for bridging the gap from mere change ... to genuine transformation.

Organizational Culture and Leadership - Edgar H. Schein 2010-07-16

Regarded as one of the most influential management books of all time, this fourth edition of *Leadership and Organizational Culture* transforms the abstract concept of culture into a tool that can be used to better shape the dynamics of organization and change. This updated edition focuses on today's business realities. Edgar Schein draws on a wide range of contemporary research to redefine culture and demonstrate the crucial role leaders play in successfully applying the principles of culture to achieve their organizational goals.

Lessons Learned from the F/A-22 and F/A-18 E/F Development Programs - Obaid Younossi 2005

Examining these two programs illustrates the real difficulties and successes of the U.S. military aircraft acquisition process.

Management Information Systems - Kenneth C. Laudon 2002

Management Information Systems contains a wealth of pedagogical features to facilitate student comprehension, helping to review and reinforce key concepts, as well as promoting problem-solving skills.

The Logical Thinking Process - H. William Dettmer 2007-05-24

A major rewrite of Dettmer's classic Goldratt's Theory of Constraints, this new edition presents a whole new approach to building and applying logic trees. The logical thinking process referred to in the title is nothing less than a broadly applicable, systems-level approach to policy analysis.

Dettmer has streamlined the process of constructing the logic trees while simultaneously ensuring that the results are more logically sound and closer representations of reality than ever before. He explains an easier, more logically sound way to integrate Current Reality Trees with Evaporating Clouds. His new version of the thinking process "retires" the Transition Tree in favor of the marriage of a more detailed Prerequisite Tree and critical chain project management. This book contains new examples of logic trees from a variety of real-world applications. Most of the diagrams and illustrations are new and improved. Explanations and procedures for constructing the logic trees are considerably simplified.

The 'Virtual Corporation' and Army Organization - 1997

This project seeks to understand how the organizational structure of commercial corporations has changed over the past 10-15 years, in order to understand what lessons might be applied to the U.S. Army. Many of these changes have been greatly facilitated by advances in information technology, and part of the project's goal was to understand how the ongoing information revolution might make possible organizational innovations.

Supply Chain Management and Transport Logistics - John J Liu

2011-09-08

The enterprise-focused framework of supply chain, which an overwhelming majority of books on supply chain management (SCM) have adopted, falls short in explaining recent developments in the real world, especially the so-called Wal-Mart model, in which a 'factory' is a virtual logistics network of multiple international manufacturing firms. The book fills the gap and examines supply chain and transport logistics. The book also includes the development of a unified methodological framework which underpins all the characteristics of the interrelationship between supply chain management and logistics. It covers many aspects of the important and innovative developments well. The book offers a unique coverage of integrated logistics of navigation, aviation and transportation. The book not only answers the urgent need for a book on supply chain management and transport logistics but also highlights the central role of supply chain logistics in the emerging fields of sustainable (green), humanitarian and maritime supply chains and the importance of studying supply chain management together with transport logistics. It also explains the difference between supply chain logistics and manufacturing logistics. It is

a useful reference for those in the industry as well as for those taking related courses.

Organizational Improvement and Accountability - Brian M. Stecher 2004

Although education faces unique challenges, the editors conclude that educators can learn much from these other sectors."--BOOK JACKET.

Lean Manufacturing and Six Sigma - Fausto Pedro García Márquez 2020-02-14

Lean Manufacturing, also called lean production, was originally created in Toyota after the Second World War, in the reconstruction period. It is based on the idea of eliminating any waste in the industry, i.e. any activity or task that does not add value and requires resources. It is considered in every level of the industry, e.g. design, manufacturing, distribution, and customer service. The main wastes are: over-production against plan; waiting time of operators and machines; unnecessary transportation; waste in the process itself; excess stock of material and components; non value-adding motion; defects in quality. The diversity of these issues will be covered from algorithms, mathematical models, and software engineering by design methodologies and technical or practical solutions. This book intends to provide the reader with a comprehensive overview of the current state, cases studies, hardware and software solutions, analytics, and data science in dependability engineering.

Selected Rand Abstracts - Rand Corporation 1999

Includes Reports (R-series), Rand Memorandums (RM-series), papers (P-series), and Books.

Organizational Improvement and Accountability - Brian M. Stecher 2004-02-19

Examines five accountability models--two from the manufacturing sector; a performance incentive model used in the evaluation of job training programs for the poor; accountability in the legal sector; and accountability in health care as shown by clinical practice guidelines, use of statistical risk-adjustment methods, and the public reporting of health performance measures. The authors summarize the models' effectiveness and draw lessons for implementing the No Child Left Behind Act.

Increasing the Capacity of Freight Transportation - David Santana Ortiz 2007

In February 2006, more than 30 U.S. and Canadian private- and public-sector stakeholders met to discuss the declining performance of the North American freight transport system and strategies for increasing its capacity. They identified effects of capacity constraints on the system and on the free movement of freight and charted a path toward addressing the most pressing issues. This document summarizes the workshop discussions.

Case Studies on Competitive Strategies - Sumit Kumar Chaudhuri 2006

The focus of this book is on competitive strategies, which assumes an all-important role in the wake of competition. Without competition, strategy has no relevance. However, as the ecology and landscape of competition

are not similar across countries and

2 Second Lean - Paul A. Akers 2011-09-16

Handbook of Research on Driving Competitive Advantage through Sustainable, Lean, and Disruptive Innovation - Al-Hakim, Latif 2016-04-22

The global market is constantly evolving and it has become essential for organizations to employ new methods of appealing to customers in order to stay abreast on current trends within the world economy. The Handbook of Research on Driving Competitive Advantage through Sustainable, Lean, and Disruptive Innovation features theoretical development and empirical research in social media platforms, internet usage, big data analytics, and smart computing, as well as other areas of organizational innovation. Highlighting implementation challenges facing innovative processes, this publication is a critical reference source for researchers, students, professionals, managers, and decision makers interested in novel strategies being employed by organizations in an effort to improve their standings on the global market.

Merging Traffic - John A. C. Conybeare 2004

John Conybeare examines the motivations at work behind the consolidation of the automotive industry worldwide into six giant conglomerates. He shows that the publicly anticipated goals are not always achieved and reveals that the real reasons behind mergers are not always what they seem to be.

Lean Enterprise Value - E. Murman 2016-01-06

Lean Production transformed the way that companies think about production and manufacturing. This book provides a new challenge. It arises from the work of the Lean Aerospace Initiative at MIT and provides a new agenda and bold vision for the aerospace industry to take it out of crisis. It also redefines and develops the concept of Lean as a framework for enterprise transformation and this will be relevant and critical for all industries and enterprises.

Machinery - 2003

Transportation Planning System Documentation Bibliography - Auerbach Corporation 1967

Annual Department of Defense Bibliography of Logistics Studies and Related Documents - United States. Defense Logistics Studies Information Exchange 1967

A New Direction for China's Defense Industry - Evan S. Medeiros 2005-12-19

Since the early 1980s, a prominent and consistent conclusion drawn from research on China's defense-industrial complex has been that China's defense-production capabilities are rife with weaknesses and limitations. This study argues for an alternative approach: From the vantage point of

2005, it is time to shift the focus of current research to the gradual improvements in and the future potential of China's defense-industrial complex. The study found that China's defense sectors are designing and producing a wide range of increasingly advanced weapons that, in the short term, are relevant to a possible conflict over Taiwan but also to China's long-term military presence in Asia. Part of a larger RAND Project AIR FORCE study on Chinese military modernization, this study examines the current and future capabilities of China's defense industry. The goals of this study are to 1.

China's Grand Strategy - Andrew Scobell 2020-07-27

To explore what extended competition between the United States and China might entail out to 2050, the authors of this report identified and characterized China's grand strategy, analyzed its component national strategies (diplomacy, economics, science and technology, and military affairs), and assessed how successful China might be at implementing these over the next three decades.

Civil Democratic Islam - Cheryl Benard 2004-03-25

In the face of Islam's own internal struggles, it is not easy to see who we should support and how. This report provides detailed descriptions of subgroups, their stands on various issues, and what those stands may mean for the West. Since the outcomes can matter greatly to international community, that community might wish to influence them by providing support to appropriate actors. The author recommends a mixed approach of providing specific types of support to those who can influence the outcomes in desirable ways.

License Plate Readers for Law Enforcement - Keith Gierlack 2014-07-15

Explores issues concerning license plate reader technology: funding, implementation, types of use, data retention policies, and privacy concerns.

Cognitive Behavioral Intervention for Trauma in Schools (CBITS) - Lisa H. Jaycox 2019-01-19

The Cognitive Behavioral Intervention for Trauma in Schools program is designed to help students exposed to traumatic events who are experiencing emotional or behavioral problems. The new edition provides updates from two decades of field experience.

U.S. Navy Shipyards - Jessie Riposo 2008

RAND investigated cost-effective workforce-management strategies, alternative workload allocations, and the relevant best practices of comparable organizations to assist the Navy in managing the public shipyards. The Navy uses many practices common in other organizations, but reducing planned levels of overtime and increasing the permanent journeyman staff at the public shipyards could cost-effectively hedge against future workload growth.

An Investigation to Improve Construction Information Flows - Chang-Sun Chin 2008

Cases on Electronic Record Management in the ESARBICA Region -

Keakopa, Segomotso Masegonyana 2020-02-28

The Eastern and Southern African Regional Branch of the International Council of Archives (ESARBICA) is dedicated to keeping and preserving records and documents so they may be accessible to the public. Constant research and re-examination of current record-keeping methods, such as the Electronic Document and Records Management System (EDRMS), is necessary to ensure the preservation and dissemination of information. *Cases on Electronic Record Management in the ESARBICA Region* is an essential reference source that shares case studies on the development and implementation of records management strategies including the procurement and implementation of EDRMS. Covering topics such as record management strategy development, e-records readiness, and legal frameworks, this book is ideally designed for archivists, librarians, records specialists, knowledge managers, ICT professionals, policymakers, system analysts, project managers, legal officers, academicians, researchers, and students.

Project Retrosight - 2011

This project explores the impacts arising from cardiovascular and stroke research funded 15-20 years ago and attempts to draw out aspects of the research, researcher or environment that are associated with high or low impact. The project is a case study-based review of 29 cardiovascular and stroke research grants, funded in Australia, Canada and UK between 1989 and 1993. The case studies focused on the individual grants but considered the development of the investigators and ideas involved in the research projects from initiation to the present day. Grants were selected through a stratified random selection approach that aimed to include both high- and low-impact grants. The key messages are as follows: 1. The cases reveal that a large and diverse range of impacts arose from the 29 grants studied. 2. There are variations between the impacts derived from basic biomedical and clinical research. 3. There is no correlation between knowledge production and wider impacts 4. The majority of economic impacts identified come from a minority of projects. 5. This report identified factors that appear to be associated with high and low impact. This report presents the full set of case studies.

Navigating and Managing an Academic Library - Judith Mavodza

2022-03-07

This book is unique in concisely addressing the impact of new and enhanced approaches to library service, encompassing topics such as Information Literacy skills acquisition, inclusive of non-Western environments, artificial intelligence in academic libraries, research data management, and confronting the concept of VUCA (Volatility, Uncertainty, Complexity, and Ambiguity) as mentioned by the Research Planning and Review Committee of ACRL (2020).

Automation, Production Systems, and Computer-integrated Manufacturing -

Mikell P. Groover 2001

For advanced undergraduate/ graduate-level courses in Automation, Production Systems, and Computer-Integrated Manufacturing. This exploration of the technical and engineering aspects of automated production systems provides the most advanced, comprehensive, and balanced coverage of the subject of any text on the market. It covers all the major cutting-edge technologies of production automation and material handling, and how these technologies are used to construct modern manufacturing systems.

Analyzing the Operation of Performance-based Accountability Systems for Public Services - Frank A. Camm 2010

This report describes a framework used to organize available empirical information on one form of performance-based management, a performance-based accountability system (PBAS), which identifies individuals or organizations that must change their behavior to improve an activity's performance, an incentive structure to motivate those changes,

and measures tailored to inform the incentive structure.

Factors Affecting Physician Professional Satisfaction and Their Implications for Patient Care, Health Systems, and Health Policy - Mark W. Friedberg
2013-10-09

The American Medical Association asked RAND Health to characterize the factors that affect physician professional satisfaction. RAND researchers sought to identify high-priority determinants of professional satisfaction by gathering data from 30 physician practices in six states, using a combination of surveys and semistructured interviews. This report presents the results of the subsequent analysis.

Air Force Journal of Logistics - 1996

Lean Manufacturing that Works - Bill Carreira 2005

If your manufacturing organization is slow and inefficient, it's time to slim down. Here's a proven "weight loss" plan.