

# Retrofitting for the Logistics Revolution

*Designing Marine Corps  
Inventories to Support  
the Warfighter*

Ronald D. Fricker, Jr.  
Marc L. Robbins

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# Retooling For The Logistics Revolution

**Robert R. Redfield**



## **Retooling For The Logistics Revolution:**

**Retooling for the Logistics Revolution. Designing Marine Corps Inventories to Support the Warfighter**, 2000 In 1996 Marine Corps leaders recognizing the need to improve logistics processes and supply support to the Fleet Marine Force FMF implemented the Precision Logistics program One of the key ideas of Precision Logistics is envisioning logistics as a set of integrated processes actions occur in a linked chain with outputs from one source being transformed into inputs that satisfy the next link in the chain Logistics then becomes an unbroken chain of activities linking many actors all aimed at achieving an overarching goal of providing efficient and effective warfighter support to sustain military operations in continuously faster better and cheaper fashion While this concept is expressed in military specific terminology the idea is just as applicable to many civilian manufacturing and repair operations and is often referred to as supply chain management in the current logistics literature

**Retooling for the Logistics Revolution** Ronald D. Fricker, Marc L. Robbins, 2000 This report presents new inventory management techniques to help the Marine Corps continue to improve logistics and repair processes The authors advocate two modern computational methods bootstrapping the ROP and dollar banding And demonstrate via simulations that these new tools lead to dramatically improved supply system performance for the Marine Corps In particular using actual data from a Marine Expeditionary Force General Account they show significant improvements in all supply system performance metrics they also demonstrate the benefit of reducing order and ship times for the Marines The improvements result not only in more fiscally efficient operation but also in better delivery of retail supply to the ultimate user the Marine warfighter The results are broadly applicable across the Marine Corps the other military services and the civilian business sector

**Velocity Management** John Dumond, 2001 Velocity management brought a new way of doing business to U S Army logistics with a renewed focus on the Army customer and an approach for process improvement that cuts across time quality and cost The authors reveal the motivations methodology and management structure behind the initiative the process improvements that have led to such quick and impressive results and the steps that have been taken to develop and institutionalize the capabilities needed to achieve and sustain future improvement Lessons learned can be readily adapted for other business models

**Retooling HR** John W. Boudreau, 2010 HR professionals have made major strides toward becoming strategic partners But they need to do more by generating value through savvy decisions about talent HR leaders typically assume that to make such decisions they must develop sophisticated analytical tools from scratch Even then the resulting tools often fail to engage their peers In Retooling HR John Boudreau shows how HR leaders can break this cycle by adapting powerful analytical tools already used by other functions to the unique challenges of talent management Drawing on his research and examples from companies including Google Disney IBM and Microsoft Boudreau explains six proven business tools leaders already use And he shows how HR can apply these tools to talent management Examples include Using engineering tolerances to find pivot points that job descriptions miss

Using inventory and supply chain analytics to ensure a ready supply of the right talent Applying logistics tools to optimize succession planning and leadership development Adapting consumer research tools to find untapped value in total rewards Retooling HR builds on Boudreau's bestselling book Beyond HR which traces HR's evolution as a decision science For HR professionals seeking to sharpen their decision making prowess this provocative new book blazes an innovative new path

*Getting the Goods* Edna Bonacich, Jake B. Wilson, 2008 Bonacich and Wilson follow the flow of imports from Asian factories exploring the roles of importers container shipping companies the ports railroad and trucking companies and warehouses and their impact on U S workers **Global RFID** Edmund W. Schuster, Stuart J. Allen, David L.

Brock, 2007-01-25 At the same time I was a junior Brand Manager at Procter Gamble worried about a much more mundane problem how to keep my products on the shelf Embedding RFID tags in the products and RFID readers in the shelf seemed like the perfect indeed the only way to do this But I needed RFID to be cheaper better and standardized in an open system In early 1999 by sheer chance I met Brock and Sarma The result was a potent meeting of minds I was looking to fund research and Brock Sarma and Siu were looking for research funding Working with Alan Haberman of the Uniform Code Council one of the founding fathers of the UPC bar code and Allan Boath of the Gillette Company we developed a plan for a new industry funded research consortium at MIT Haberman wanted to call it the Center For Automatic Identification And Data Capture At the last minute I persuaded him to abbreviate it to the Auto ID Center But my luck with names is hit and miss inspired by the bar code I had the bad idea of calling Auto ID Center's technology UPC2 Brock and Sarma saved the day one of them I cannot remember which proposed a far better alternative EPC for electronic product code The Auto ID Center opened on October 1 1999 P G loaned me to MIT to act as Executive Director and Sunny Siu was the first Research Director US Military

Innovation since the Cold War Harvey Sapolsky, Benjamin Friedman, Brendan Green, 2009-04-28 explains how the US military transformation failed in the post Cold war era Harvey Sapolsky is a leading defence scholar in the US will be of interest to students of strategic studies defence studies military studies US politics and security studies in general Naval Research Logistics, 2000 The types of articles most sought after by Naval Research Logistics fall into the following classes i modeling and analysis of problems motivated by current real world applications ii exploratory modeling and analysis of problems motivated by potential future real world applications iii major methodological advances and iv expository pieces of exceptional clarity Areas represented include but are not limited to probability statistics simulation optimization game theory scheduling reliability inventory decision analysis and combat models **The Deadly Life of Logistics** Deborah

Cowen, 2014-09-01 In a world in which global trade is at risk where warehouses and airports shipping lanes and seaports try to guard against the likes of Al Qaeda and Somali pirates and natural disaster can disrupt the flow of goods even our stuff has a political life The high stakes of logistics are not surprising Deborah Cowen reveals if we understand its genesis in war In *The Deadly Life of Logistics* Cowen traces the art and science of logistics over the last sixty years from the battlefield to the

boardroom and back again Focusing on choke points such as national borders zones of piracy blockades and cities she tracks contemporary efforts to keep goods circulating and brings to light the collective violence these efforts produce She investigates how the old military art of logistics played a critical role in the making of the global economic order not simply the globalization of production but the invention of the supply chain and the reorganization of national economies into transnational systems While reshaping the world of production and distribution logistics is also actively reconfiguring global maps of security and citizenship a phenomenon Cowen charts through the rise of supply chain security with its challenge to long standing notions of state sovereignty and border management Though the object of corporate and governmental logistical efforts is commodity supply The Deadly Life of Logistics demonstrates that they are deeply political and considered in the context of the long history of logistics deeply indebted to the practice of war

**Selected Rand Abstracts** Rand Corporation,2000 Includes publications previously listed in the supplements to the Index of selected publications of the Rand Corporation Oct 1962 Feb 1963

**Dollars and Sense** Marygail K. Brauner,2000 As the Army has implemented initiatives to improve its basic logistics processes it has found that these processes are hampered by a financial management system that is slow and inaccurate and that creates errors and delays This report documents analysis supporting the Army s effort to improve its logistics financial management FM processes using Velocity Management s Define Measure Improve methodology In defining the FM process researchers developed process maps that showed that the delivery of conflicting information from the supply and finance systems forces units to create time consuming manual reconciliation processes to determine their remaining budgets Researchers identified metrics to measure performance To improve the quality of price and credit information and eliminate the need for manual reconciliation the researchers recommended that when a transaction is first undertaken the prices and credits should be used for all records of the transaction

**Naval War College Review** ,2009 *From Logistics Strategy to Macrologistics* Jan Havenga,Ilse Witthöft,Anneke de Bod,Zane Simpson,2020-05-03 Macrologistics is a strategic view of logistics as a production factor on national scales to support a shift towards sustainability The book details logistics evolution from a functional discipline to a value chain optimiser and ultimately an enabler of sustainability including the evolution of metrics to support this shift Macrologistics instrumentation involves striving towards the lowest total cost of ownership for national economies where to improve decision making these costs should ultimately include the societal and ecological costs incurred due to logistics activities From Logistics Strategy to Macrologistics represents macrologistics research outputs for a number of developing economies identifying distinctive macrologistics policy and infrastructure investments themes to address national logistics challenges in developing economies The book culminates in a discussion on the potential future role of logistics to support the shift to a more sustainable society where an acceptance of a degrowth paradigm might be required and even advisable for a more secure fulfilling future Logistics and economics scholars researchers and practitioners should steer their work towards contributing to the

development of an ecologically sustainable society where resources and returns are shared widely sustainably and equitably

Right Price, Fair Credit Ellen Marie Pint, 2002 Under the Army's financial management system for spare parts logistics customers receive budgets to buy spare parts from the supply system and receive credits for returning parts to the supply system either for repair or because they are no longer needed in local inventories. The Army's wholesale inventories of spare parts are financed by a stock fund which uses its income from the sale of parts net of credits issued to customers to pay for repairs and procurement of replacement parts. Some installation level or retail inventories are also financed by stock funds. During fiscal year 2001 the Army's stock funds were in a period of transition from separate wholesale and retail components to a Single Stock Fund (SSF). As part of this change the Army implemented new price and credit policies for spare parts. In this document the authors introduce a set of criteria to assess price and credit policy changes in terms of their effectiveness in meeting the overall objective of maintaining the logistics customer's ability to meet mission requirements while keeping weapon systems in operating condition at the lowest total cost to the Army. The authors then use these criteria to compare and evaluate pre-SSF, SSF and proposed future price and credit policies and define the characteristics of an optimal Army price and credit policy.

*The Supply Chain Revolution* Art Koch, 2024-06-13 Does your company suffer from inventory obesity? Is the balance between your supply and demand a constant struggle? In *The Supply Chain Revolution* Art Koch unveils a masterful system for any organization to build better supply chain fundamentals and overcome the evils of inventory. This is the ultimate playbook for CEOs, COOs and CFOs to revolutionize supply chains and convert them from cost centers to profit and value drivers. Turn your supply chain into a powerful weapon for sustainable profitability by unlocking the power of inventory velocity with innovative strategies for process optimization, team engagement and corporate valuation. It's not just good management; it's a proven competitive advantage.

**Rand Review**, 2002 American Book Publishing Record, 2000-07

**The Digital Transformation of Logistics** Mac Sullivan, Johannes Kern, 2021-03-30 The digital transformation is in full swing and fundamentally changes how we live, work and communicate with each other. From retail to finance, many industries see an inflow of new technologies, disruption through innovative platform business models and employees struggling to cope with the significant shifts occurring. This Fourth Industrial Revolution is predicted to also transform Logistics and Supply Chain Management with delivery systems becoming automated, smart networks created everywhere and data being collected and analyzed universally. *The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution* provides a holistic overview of this vital subject clouded by buzz, hype and misinformation. The book is divided into three themed sections. Technologies such as self-driving cars or virtual reality are not only electrifying science fiction lovers anymore but are also increasingly presented as cure-all remedies to supply chain challenges. In *The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution* the authors peel back the layers of excitement that have grown around new technologies such as the Internet of Things (IoT), 3D printing, Robotic Process

Automation RPA Blockchain or Cloud computing and show use cases that give a glimpse about the fascinating future we can expect Platforms that allow businesses to centrally acquire and manage their logistics services disrupt an industry that has been relationship based for centuries The authors discuss smart contracts which are one of the most exciting applications of Blockchain Software as a Service SaaS offerings for freight procurement where numerous data sources can be integrated and decision making processes automated and marine terminal operating systems as an integral node for shipments In The Digital Transformation of Logistics Demystifying Impacts of the Fourth Industrial Revolution insights are shared into the cold chain industry where companies respond to increasing quality demands and how European governments are innovatively responding to challenges of cross border eCommerce People are a vital element of the digital transformation and must be on board to drive change The Digital Transformation of Logistics Demystifying Impacts of the Fourth Industrial Revolution explains how executives can create sustainable impact and how competencies can be managed in the digital age especially for sales executives who require urgent upskilling to remain relevant Best practices are shared for organizational culture change drawing on studies among senior leaders from the US Singapore Thailand and Australia and for managing strategic alliances with logistics service providers to offset risks and create cross functional cross company transparency The Digital Transformation of Logistics Demystifying Impacts of the Fourth Industrial Revolution provides realistic insights a ready to use knowledge base and a working vocabulary about current activities and emerging trends of the Logistics industry Intended readers are supply chain professionals working for manufacturing trading and freight forwarding companies as well as students and all interested parties

Global Logistics Strategies John Manners-Bell,2013-11-03 Global Logistics Strategies offers a step by step guide to global logistics Covering the breadth of logistics this highly accessible text covers everything you need to know and is illustrated by engaging case studies of market leaders such as DHL In this comprehensive book John Manners Bell provides an in depth definition description and exploration of freight forwarding contract logistics shipping road freight air cargo and express The book also examines major sectors including Automotive Chemical Pharmaceutical Retail Consumer and High Tech Global Logistics Strategies offers a detailed examination of key topics including how the logistics industry has developed how it is influenced by macro economic factors and demand side trends what the risks are to the industry and how it will develop over the coming years It examines important trends and developments that are shaping the industry including 3D printing megacities and post harvest food losses Includes online resources including chapter summaries and figures

Embark on a breathtaking journey through nature and adventure with Explore with is mesmerizing ebook, Witness the Wonders in **Retooling For The Logistics Revolution** . This immersive experience, available for download in a PDF format (\*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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web 8 2 1 1 hexagonal nut the upper corners of this nut are rounded off or chamfered the chamfering is generally conical the angle of chamfer is 30 or 45 with the base of the nut due to chamfering an arc is formed on each vertical face and a circle is formed on the top surface of the nut

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web a hex key also hex wrench allen key and allen wrench or inbus is a simple driver for bolts or screws that have heads with internal hexagonal recesses hex keys are formed from a single piece of hard hexagonal steel rod having blunt ends that fit snugly into similarly shaped screw sockets the rods are bent to 90° forming two arms of unequal

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web head designs that overlap both bolts and screws are the allen or torx heads hexagonal or splined sockets these modern designs span a large range of sizes and can carry a considerable torque rusty hexagonal bolt heads the american institute of steel construction 13th edition steel design manual section 16 1 chapter j 3 specifies the

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web the formula used to calculate the bolt area is as follows bolt area  $ba = 0.7854 d^2 n$  in this formula  $d$  represents the bolt diameter in inches and  $n$  represents the number of threads per inch the bolt area is calculated by subtracting 0.9734 divided by the threads per inch from the bolt diameter and then squaring the

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web jun 3 2020 calculation and drawing of hexagon bolt when drawing the bolt connection first calculate the nominal length  $l$  of the bolt the length of bolt  $l = k_1 m + g_1 + g_2 + b_1$  after calculating the length check the national standard and take the standard length  $l$  according to the bolt length series

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