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Airplane Flying Handbook (FAA-H-8083-3A)
Introductory Statistics

Boys Love Manga and Beyond

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An astonishing new scientific discovery called neuroplasticity is overthrowing the centuries-old notion that the adult human brain is fixed and unchanging. It is, instead, able to change its own structure and function, even into old age. Psychiatrist and researcher Norman Doidge, M.D., travelled around the United States to meet the brilliant scientists championing neuroplasticity, and the people whose lives they've transformed — people whose mental limitations or brain damage were previously seen as unalterable, and whose conditions had long been dismissed as hopeless. We see a woman born with half a brain that rewired itself to work as a whole; a woman labeled retarded who cured her deficits with brain exercises and now cures those of others; blind people who learn to see; learning disorders cured; IQs raised; ageing brains rejuvenated; stroke patients recovering their faculties; children with cerebral palsy learning to move more gracefully; entrenched depression and anxiety disappearing; and lifelong character traits changed. Doidge takes us onto terrain that might seem fantastic. We learn that our thoughts can switch our genes on and off, altering our brain anatomy. We learn how people of average intelligence can, with brain exercises, improve their cognition and perception, develop muscle strength, or learn to play a musical instrument — simply by imagining doing so. Using personal stories from the heart of this neuroplasticity revolution, Dr Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential.

BMP Infantry Fighting Vehicle 1967-94

Tanks in the Vietnam War. MOUNTED COMBAT. That element of tactical operations which involves tactical maneuver forces fighting while mounted in either ground combat vehicles or armed Army aircraft as the principal means of accomplishing a land force mission. Mounted combat is normally conducted with a force that includes tanks, armored cavalry, air cavalry, and mechanized units supported on the battlefield by mobile artillery and engineers and by a mobile combat service support system

Bradley vs BMP

The Inter-American Development Bank (IDB), in cooperation with the International Water Association (IWA), has developed a rating system that assesses the performance of water and sanitation service providers in a comprehensive way. AquaRating: An international standard for assessing water and wastewater services aims to provide an industry standard for utilities. The innovative rating system seeks the improvement of the service delivered by means of a rigorous and systematic assessment. AquaRating comprises more than 100 assessment elements organized in eight rating areas: Service Quality, Efficiency in the Planning and Execution of Investments, Operating Efficiency, Business Management

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Efficiency, Financial Sustainability, Access to Service, Corporate Governance, Environmental Sustainability. Each of the assessment elements and consecutively rating areas is assigned a rating (from 0 to 100), which in turn are aggregated into a single rating for the utility. Assessment elements consist of qualitative good practices and quantitative indicators. The total compliance with practices and achievement of the most demanding indicators levels means delivery of an excellent service and, therefore, awards a maximum rating of 100 points. AquaRating takes into account the quality of the information supporting the ratings results by correcting the rating for the reliability level of such information. The rating results are certifiable thanks to an independent audit of the supporting information. The expected benefits of the system are manifold:

- Utilities - Identify areas of improvement, receive guidance and monitor progress over time.
- Obtain an external and credible performance rating, which contributes to foster reputation, accountability and acceptance by key stakeholders, gain access to new markets and finance, and attract qualified staff.
- Get access to a knowledge and assessment framework that fosters continuous learning.
- Governments, regulators and development agencies - Use the system to stimulate utilities to maintain or improve their performance and to target technical assistance and finance according to the specific opportunities for improvement identified.
- Consumers - Obtain better services in terms of access, quality, efficiency, sustainability and transparency.

The Modern Russian Army 1992-2016

AquaRating

With its distinctive double-cockpit design, the Mi-24 'Hind' is arguably the most recognizable war machine of the Cold War, and has achieved near-legendary status in the annals of military history. The first Soviet helicopter to function as both a gunship and an assault transport, it served extensively in Afghanistan, and is now employed by militaries across the world. Written by an expert on the 'Hind', an drawing on manufacturing and military sources, this book presents the Mi-24 in all of its brutal glory, from design and development to deployment and combat. Also included are a number of color plates showing the distinct paint schemes employed by various nations in a range of theaters/ theatres and for different armies.

Soviet T-10 Heavy Tank and Variants

The Gulf War bore witness to a number of deadly encounters between these two great adversaries. Heavily armoured, highly mobile and capable of killing at over 2500m the M1 Abrams is, to this day, a veritable fighting machine. Superior to

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both Iraq's Soviet era T-55 and T-62 tanks, nearly all sources claim that no Abrams tank has ever been destroyed by enemy fire. Despite entering service in 1980, the M1 Abrams remained untested in combat until the Gulf War in 1991, where it was to be confronted by its archenemy the Iraqi-assembled Soviet-designed T-72. Entering production in 1971, the T-72 arguably outstripped its contemporaries in a balance of mobility, protection and firepower. By the time of Operation Desert Storm, however, the tables had turned and the tank suffered due to low quality ammunition and poorly trained crews. In this fascinating study, Steven Zaloga pits these two great fighting machines against one another, plotting the development of the Cold War until both tanks met in combat in the deserts of Iraq and Kuwait.

Self-Propelled Anti-Aircraft Guns of the Soviet Union

Intellectuals and Race is a radical book in the original sense of one that goes to the root of the problem. The role of intellectuals in racial strife is explored in an international context that puts the American experience in a wholly new light. The views of individual intellectuals have spanned the spectrum, but the views of intellectuals as a whole have tended to cluster. Indeed, these views have clustered at one end of the spectrum in the early twentieth century and then clustered at the opposite end of the spectrum in the late twentieth century. Moreover, these radically different views of race in these two eras were held by intellectuals whose views on other issues were very similar in both eras. Intellectuals and Race is not,

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however, a book about history, even though it has much historical evidence, as well as demographic, geographic, economic and statistical evidence-- all of it directed toward testing the underlying assumptions about race that have prevailed at times among intellectuals in general, and especially intellectuals at the highest levels. Nor is this simply a theoretical exercise. The impact of intellectuals' ideas and crusades on the larger society, both past and present, is the ultimate concern. These ideas and crusades have ranged widely from racial theories of intelligence to eugenics to "social justice" and multiculturalism. In addition to in-depth examinations of these and other issues, *Intellectuals and Race* explores the incentives, the visions and the rationales that drive intellectuals at the highest levels to conclusions that have often turned out to be counterproductive and even disastrous, not only for particular racial or ethnic groups, but for societies as a whole.

M1A2 Abrams Main Battle Tank 1993-2018

In *Stop at Nothing* Annabel Crabb brings all her wit and perceptiveness to the story of Malcolm Turnbull. This is a memorable look at the Prime Minister in action – his flaws and achievements – as well as his past lives and adventures. Drawing on extensive interviews with Turnbull, Crabb delves into his university exploits – which included co-authoring a musical with Bob Ellis – and his remarkable relationship with Kerry Packer, the man for whom he was first a prized attack dog and then a

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mortal enemy. She examines the extent to which Turnbull – colourful, aggressive, humorous and ruthless – has changed. Crabb tells how he first lost, and then won back, the Liberal leadership, and explores the challenges that now face him today as the forward-looking leader of a conservative Coalition.

T-90 Standard Tank

The T-55 is one of the most iconic weapons created by the Soviets during the Cold War and also one of the most widely deployed weapons in history. Like its younger brother, the T-54, the T-55 enjoyed a long career in the Red Army and even into the early days of the reformed Russian Army. Under their control it saw very little combat use or deployments, but it was widely sold to other nations and participated in many of the wars and combat operations from the mid-1960s to the present. The T-55 has been employed in almost every conflict in the Middle East and Africa from its introduction into service. Even today the tank is still employed by both sides in the Syrian Civil War, and they are also in service with Kurdish forces in the struggle against ISIS in the northern part of Iraq. Containing more than 400 stunning contemporary and modern photographs, and written by two experts on Soviet armour, this authoritative book tells the complete story of the T-55, one of the most widely produced tanks of all time.

The World's Greatest Tanks

T-54 and T-55 Main Battle Tanks 1944-2004

Boys Love Manga and Beyond looks at a range of literary, artistic and other cultural products that celebrate the beauty of adolescent boys and young men. In Japan, depiction of the “beautiful boy” has long been a romantic and sexualized trope for both sexes and commands a high degree of cultural visibility today across a range of genres from pop music to animation. In recent decades, “Boys Love” (or simply BL) has emerged as a mainstream genre in manga, anime, and games for girls and young women. This genre was first developed in Japan in the early 1970s by a group of female artists who went on to establish themselves as major figures in Japan’s manga industry. By the late 1970s many amateur women fans were getting involved in the BL phenomenon by creating and self-publishing homoerotic parodies of established male manga characters and popular media figures. The popularity of these fan-made products, sold and circulated at huge conventions, has led to an increase in the number of commercial titles available. Today, a wide range of products produced both by professionals and amateurs are brought together under the general rubric of “boys love,” and are rapidly gaining an audience throughout Asia and globally. This collection provides the first

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comprehensive overview in English of the BL phenomenon in Japan, its history and various subgenres and introduces translations of some key Japanese scholarship not otherwise available. Some chapters detail the historical and cultural contexts that helped BL emerge as a significant part of girls' culture in Japan. Others offer important case studies of BL production, consumption, and circulation and explain why BL has become a controversial topic in contemporary Japan.

T-80 Standard Tank

The Merkava, or Chariot, was the first tank entirely designed and built by the Israeli Army. The IDF had previously been using a variety of vehicles, acquired from various sources, including in particular the Sherman and Centurion. The Merkava was designed specifically for the type of warfare and opponents that Israel faced. The resulting tank was heavily armoured and packed a powerful 105mm main gun backed up with a digital fire control system and laser range-finder. This title examines the development and deployment of the Merkava, investigating the changing technical aspects of the various marks, creating a useful and comprehensive study of Israel's most formidable tank.

Soviet T-55 Main Battle Tank

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In the mid-1960s, the Soviet Union unveiled the BMP, the first true infantry fighting vehicle. A revolutionary design, the BMP marked a significant departure from the traditional armoured personnel carrier, with a lower silhouette and heavier armament than rival APCs. One of the most fearsome light-armoured vehicles of its day, it caused great consternation on the other side of the Iron Curtain as the Americans scrambled to design a machine to rival the BMP. The result was the M2/M3 Bradley. These Cold War icons first clashed – not on the plains of Europe, but in southern Iraq during the Gulf War of 1991. Featuring specially commissioned full-colour artwork, this is the absorbing story of the origins, development and combat performance of the BMP and Bradley, culminating in the bloody battles of the Gulf War.

The Brain That Changes Itself

In February 2014, street protests in Kiev and other Ukrainian cities led to the ousting of the Russian-backed President Yanukovich. The so-called Euromaidan Revolution saw many changes to Ukraine's constitution, but the violent reaction in the east and south of the country led to armed counter-revolution, unofficially backed by Russia. This conflict is the essential example of Russia's new policy of 'hybrid warfare', which blends propaganda, misinformation, and the deployment of 'deniable' Special Forces and regular troops alongside proxies and mercenaries to achieve its strategic ends. Using his extensive contacts in both Russia and Ukraine,

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and access to a mass of official and unofficial sources, Mark Galeotti presents a thorough and intriguing primer on all the forces involved in the ongoing conflict in Ukraine. Supported by specially commissioned artwork, he analyses both the progress of the war, and what it teaches us about Russia's current military capabilities.

M1 Abrams Main Battle Tank 1982-92

From the Soviet T-34 and German Panther tanks of World War II to the M1A2 Abrams, Challenger 2 and T-90 of the present day, *The World's Greatest Tanks* is an expert examination of the most successful tanks of the past hundred years. Beginning with the prototype Mark V Male in 1917, *The World's Greatest Tanks* features 52 of the best armoured fighting vehicles from World War I, World War II, through the Cold War and up to the highly sophisticated tanks that have seen recent service in wars in the Balkans, Caucasus, and Middle East. Each entry is examined over two spreads and includes a brief description of the tank's development and history, a colour profile artwork, photographs, key features and specifications tables. Packed with more than 200 artworks and photographs, *The World's Greatest Tanks* is a colourful guide for the military historian and military technology enthusiast.

East Asian Pop Culture

2004 emergency response guidebook

The Light Armored Vehicle 25 (LAV-25) has played a significant role in transforming United States Marine Corps doctrine since its introduction in the early 1980s. The Marine Corps' Light Armored Vehicle program was based on the proven Swiss MOWAG Piranha series of 4x4, 6x6, and 8x8 wheeled vehicles. However, developing organizational units, tactics, and employment of the weapon system within the force structure of the Marine Corps proved to be more of a challenge than fielding the weapon system. This resulted in multiple re-designations for LAV units within the Corps. The LAV first saw combat in Panama during Operation Just Cause and LAV-25s have fought in every major conflict since, including Operation Enduring Freedom, and Operation Iraqi Freedom. This book covers the design, development, and deployment of this continually successful vehicle.

Merkava Main Battle Tank MKs I, II & III

The book comprises select proceedings of the 2016 annual conference of the Indian Geotechnical Society (IGC 2016), with technical papers on the theme

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“Ground Improvement and Geosynthetics”. The papers cover a wide range of topics, including chemical modification using admixtures, microbial-induced carbonate precipitation, geopolymers, fly ash and other industrial wastes, modification using geosynthetic materials such as natural and synthetic fibers, expanded polystyrene (EPS) geofoam, prefabricated vertical drains, geosynthetic encased-granular columns and mechanical densification through sand columns. This book is a valuable reference for researchers and practicing engineers alike.

T-90 Standard Tank

Since the Gulf War, the Abrams tank has undergone a transformation, while fighting in conflicts across the world. Its M1A1 and M1A2 variants have seen great improvements made to this iconic tank, including in fire-control, armour protection, and thermal imaging technology. Involvement in the conflicts in Iraq and Afghanistan necessitated a number of upgrades and modifications as the United States fought two of its longest wars. Recent years have seen new variants of the series such as the ABV Assault Breacher Vehicle and M104 Wolverine Heavy Assault Bridge. Over the past few decades, the M1A1 Abrams has also been extensively exported and is license produced in Egypt. The long-awaited follow-up to NVG 2 M1 Abrams Main Battle Tank 1982–92 (1993), this fully illustrated study examines the Abrams tanks' last quarter-century of service with both the United States and its various foreign operators with a focus on its combat history.

Handbook of Hydraulic Resistance

During the Cold War, the Soviet Army was perhaps the deadliest fighting force the world had ever seen. Within its mechanized forces, the Soviets accomplished something that their American counterparts never could – the fielding of a self-propelled anti-aircraft gun (SPAAG) that could keep pace with its heavy armored formations. This volume examines the design, development and operational history of the Soviet Union's Cold War SPAAGs: the ZSU-37, ZSU-57-2, the infamous ZSU-23-4, and the 9K22 Tunguska (better known by its NATO reporting name: SA-19 'Grison'). These vehicles excelled in their air defense role, and many US Department of Defense publications were dedicated to examining how to defeat the ZSU and its radar tracking system. These formidable weapons equipped Russian forces in Afghanistan and were encountered again in Iraq during Operation Desert Storm and Iraqi Freedom, cementing their place in the landscape of modern warfare. This study explores the full history of the SPAAGs with revealing photographs, technical illustrations and detailed analysis.

Introduction to Atmospheric Chemistry

When it was introduced into service in 1953, the T-10 represented a return to the “classic” Soviet heavy tank. Although considered a major threat to NATO tank

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forces, it also represented the end of an era. All gun heavy tanks like the T-10 would eventually be made effectively redundant by later models like the T-62 which had powerful next generation armament and new ammunition types. The tank was gradually withdrawn from service in the 1970s, though the last tanks would only leave Russian service, by decree of the President of the Russian Federation, in 1997. As such the T-10 outlived the Soviet state that had created it. Never exported outside of the Soviet Union and rarely used in combat, the T-10 has remained a mysterious tank, with many of its variants unknown in the West until very recently. This study, written from original Russian and Ukrainian primary source documents that have only recently been made available, uncovers the history of this enigmatic tank using 130 stunning contemporary and modern photographs of the T-10 as well as full colour side-view artwork.

Mil Mi-24 Hind Gunship

The Soviet T-80 Standard Tank was the last tank fielded before the Soviet collapse, and the most controversial. Despite having the most sophisticated fire controls and multi-layer armor ever fielded on a Soviet tank, its turbine power plant (rather than a conventional diesel) remained a source of considerable trouble throughout its career. Steven J Zaloga charts the little-known history of the T-80, covering the initial construction, through the development to the subsequent variants, the T-84 and Russia's enigmatic "Black Eagle Tank." Accompanying detailed cut-away

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artwork illustrates the unusual design features that made the T-80 so controversial.

Armor

Modern Russian Tanks & AFVs explores the main battle tanks, armored fighting vehicles, armored personnel carriers, self-propelled guns, and missile-launching platforms in service since Russia reorganized its armored forces in the early 1990s. Organized by type and then alphabetically by manufacturer, the entries include the Buk missile system that shot down Malaysian Airlines 777 over Ukraine in 2014. Expert profile artworks illustrate each entry, which also includes complete technical specifications.

Ground Improvement Techniques and Geosynthetics

The Russian T-72 Ural tank is the most widely-deployed main battle tank of the current generation. Used by the armies of the former Warsaw pact and Soviet Union, it has also been exported in large numbers to many of the states in the Middle East. This book reveals the previously secret history behind the tank. Steven J Zaloga examines the conditions under which the T-72 was designed and produced. Technical aspects of the weapon are also discussed, including its EDZ

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reactive armour which, when it first appeared in December 1984, gave NATO a nasty shock.

T-72 Main Battle Tank 1974-93

Since the collapse of the Soviet Union, Russia's army has undergone a turbulent transformation, from the scattered left-overs of the old Soviet military, through a period of shocking decay and demoralization, to the disciplined force and sophisticated 'hybrid war' doctrine that enabled Vladimir Putin to seize Crimea virtually overnight in 2014. Using rare photographs and full colour images of the army in action, profiles of army leaders and defence ministers, as well as orders of battle and details of their equipment and dress, this is a vivid account of the army's troubled history and of its current character, capabilities and status. Written by an internationally respected author with remarkable access to Russian-language sources and veterans, this study is essential reading for anyone wishing to understand the growing power of Russia's military.

Mounted Combat in Vietnam

Introductory Statistics is designed for the one-semester, introduction to statistics course and is geared toward students majoring in fields other than math or

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engineering. This text assumes students have been exposed to intermediate algebra, and it focuses on the applications of statistical knowledge rather than the theory behind it. The foundation of this textbook is Collaborative Statistics, by Barbara Illowsky and Susan Dean. Additional topics, examples, and ample opportunities for practice have been added to each chapter. The development choices for this textbook were made with the guidance of many faculty members who are deeply involved in teaching this course. These choices led to innovations in art, terminology, and practical applications, all with a goal of increasing relevance and accessibility for students. We strove to make the discipline meaningful, so that students can draw from it a working knowledge that will enrich their future studies and help them make sense of the world around them.

Coverage and Scope Chapter 1 Sampling and Data Chapter 2 Descriptive Statistics Chapter 3 Probability Topics Chapter 4 Discrete Random Variables Chapter 5 Continuous Random Variables Chapter 6 The Normal Distribution Chapter 7 The Central Limit Theorem Chapter 8 Confidence Intervals Chapter 9 Hypothesis Testing with One Sample Chapter 10 Hypothesis Testing with Two Samples Chapter 11 The Chi-Square Distribution Chapter 12 Linear Regression and Correlation Chapter 13 F Distribution and One-Way ANOVA

LAV-25

In the wake of the T-72 tank's poor performance in the 1991 Gulf War, the Kremlin

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instructed the Russian tank industry to drop the discredited T-72 designation in favour of the T-90 Vladimir. The T-90 was in fact a further evolution of the T-72 family, but the name change represented an important break in Russian/Soviet tank design history. The T-90 has become the principal export tank of Russia, and is in service in large numbers in many countries including Algeria, India, and many of the former Soviet republics. Using detailed illustrations and full colour artwork, this book will also describe the evolution of the T-90s many failed successors including the little known Bokser, Molot, and T-95, as well as its likely successor, the new T-14 Armata, and the wide range of specialized vehicles based on the T-90 chassis such as the formidable Terminator tank support vehicle.

T-64 Battle Tank

The Russian BMP infantry fighting vehicle (IFV) was one of the most significant innovations in infantry tactics in the latter half of the 20th century. Built in response to the threat of nuclear warfare, it was the world's first IFV, providing the infantry squad with unprecedented firepower, mobility and protection. With over 55,000 manufactured since 1966, the BMP is also numerically one of the most important armoured vehicles ever built. This richly illustrated book examines the development and design of the BMP, detailing its armaments, performance in combat and variants.

Armies of Russia's War in Ukraine

The T-64 tank was the most revolutionary design of the whole Cold War, designed to provide the firepower and armour protection of a heavy tank in a medium-weight design. It pioneered a host of new technologies including laminate armour, stereoscopic tank rangefinders, opposed-piston engines, smooth-bore tank guns with discarding sabot ammunition, and gun-fired guided projectiles. These impressive features meant that the Russians were loath to part with the secrets of the design, and the T-64 was the only Soviet tank type of the Cold War that was never exported. Written by an armour expert, this detailed technical history sheds light on the secrets behind the Cold War's most controversial tank, revealing how its highly advanced technologies proved to be both a blessing and a curse.

Modern Russian Tanks and AFVs

The Iosef Stalin tanks were the ultimate heavy tanks developed by the Soviet Union and were popularly called 'Victory tanks' due to their close association with the defeat of Germany in 1945. Yet in spite of their reputation, the Stalin tanks emerged from a troubled design, had a brief moment of glory in 1944 and 1945, and disappeared in ignominy after 1960. This title covers the events contributing to the Soviet Union's need to design the new series, with particular reference to

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the unsuccessful KV series and the advent of a new generation of heavy German tanks including the Tiger. It also covers their development, operational history and myriad variants.

Challenger Main Battle Tank 1982-97

In the wake of the T-72 tank's poor performance in the 1991 Gulf War, the Kremlin instructed the Russian tank industry to drop the discredited T-72 designation in favour of the T-90 Vladimir. The T-90 was in fact a further evolution of the T-72 family, but the name change represented an important break in Russian/Soviet tank design history. The T-90 has become the principal export tank of Russia, and is in service in large numbers in many countries including Algeria, India, and many of the former Soviet republics. Using detailed illustrations and full colour artwork, this book will also describe the evolution of the T-90s many failed successors including the little known Bokser, Molot, and T-95, as well as its likely successor, the new T-14 Armata, and the wide range of specialized vehicles based on the T-90 chassis such as the formidable Terminator tank support vehicle.

T-62 Main Battle Tank 1965-2005

The contributors analyse the subject of Asian pop culture arranged under three

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headings: 'Television Industry in East Asia', 'Transnational-Crosscultural Receptions of TV Dramas' and 'Nationalistic reactions'.

M1 Abrams vs T-72 Ural

Intellectuals and Race

This book presents an analysis of the results of studies of motor fuels ageing, conducted in laboratory and model conditions, in terms of building a system operating on-line, allowing continuous assessment of the operational usability of gasoline and diesel fuels, including those containing the addition of ethanol and FAME, respectively. This research was carried out in the framework of the project: "A system for the continuous control of the degree and rate of the liquid fuels ageing process during storage, which received co-funding from the European Regional Development Fund under the Operational Programme "Innovative Economy". The book presents an evaluation of the impact of fuel production processes on its stability and an analysis of changes in normative parameters of fuels during their storage and use. The book presents also the results of tests on the corrosive effects of fuels during storage processes. This project was co-financed by the European Regional Development Fund under the Operational

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Programme "Innovative Economy".

Stop at Nothing

The T-34-85 tank is one of those rare weapons that have remained in service for more than half a century. First introduced in 1944, it has seen combat in nearly every corner of the globe. Steven Zaloga and Jim Kinnear look at this long-serving tank at length. Although long obsolete in Europe, it has proven a reliable and potent weapon in many Third World conflicts, and is still in service with more than a dozen armies around the world.

T-34-85 Medium Tank 1944-94

The successor to the Chieftain from the 1960's, work began in 1976 on development of a new MBT specifically for the Iranian army, who needed a more capable tank than the Chieftain to suit their climatic and geographical conditions. However, once the revolution occurred in 1979 the British army was reluctantly forced to accept this new design themselves. Once in service there were technical problems resulting in various modifications. However, the Challenger would go on to great success in the Gulf War, playing crucial roles in both Desert Storm and Desert Sabre operations. In this book, Simon Dunstan examines this tank in detail,

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evaluating its performance both on the test range and in the field of battle.

IS-2 Heavy Tank 1944-73

The T-54 and T-55 tanks are the most widely manufactured tanks of all time. They have become ubiquitous to wars around the globe since the 1950s, starting with Hungary in 1956, and including the the Arab-Israeli wars of 1967, 1973 and 1982, the Vietnam war of 1967-75, the Iran-Iraq War of 1980-88, the Afghanistan conflict, Operation Desert Storm, the Yugoslav Civil Wars, and the recent conflict in Iraq. This book will examine the roots of this prolific tank family, starting with the Soviet Army's first attempts to replace the legendary T-34 during World War II, and covering the T-43 and the T-44, the more successful T-54, and its ultimate evolution into the T-55.

Storage Stability of Fuels

The M1 Abrams was the most radical departure in US tank design since World War II. Until the advent of the M1 in the early 1980s, the US Army had relied on the steady evolution of the M26 Pershing tank, through the M46, M47, M48 and M60. The M1 design came at a time when there were a host of important new tank technologies coming to fruition, in terms of structure and weaponry: these were

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integrated into it. This book details the design, development and operational use of one of the world's best main battle tanks.

Airplane Flying Handbook (FAA-H-8083-3A)

Atmospheric chemistry is one of the fastest growing fields in the earth sciences. Until now, however, there has been no book designed to help students capture the essence of the subject in a brief course of study. Daniel Jacob, a leading researcher and teacher in the field, addresses that problem by presenting the first textbook on atmospheric chemistry for a one-semester course. Based on the approach he developed in his class at Harvard, Jacob introduces students in clear and concise chapters to the fundamentals as well as the latest ideas and findings in the field. Jacob's aim is to show students how to use basic principles of physics and chemistry to describe a complex system such as the atmosphere. He also seeks to give students an overview of the current state of research and the work that led to this point. Jacob begins with atmospheric structure, design of simple models, atmospheric transport, and the continuity equation, and continues with geochemical cycles, the greenhouse effect, aerosols, stratospheric ozone, the oxidizing power of the atmosphere, smog, and acid rain. Each chapter concludes with a problem set based on recent scientific literature. This is a novel approach to problem-set writing, and one that successfully introduces students to the prevailing issues. This is a major contribution to a growing area of study and will be

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welcomed enthusiastically by students and teachers alike.

Introductory Statistics

The Soviet Army hastily developed the T-62 in a struggle to compete against the rapid proliferation of NATO tanks in the 1960s. It was essentially a modification of the widely-manufactured T-55 tank with the addition of a new 115mm gun. Within the USSR itself, the T-62 was quickly superseded, but it was widely exported, becoming a critical component of the Egyptian and Syrian armies in the 1973 Yom Kippur conflict and heavily influenced later designs of the M1 Abrams and Challenger tanks. In the first English-language history of this tank, Steven Zaloga examines the development of the T-62 using detailed combat descriptions to bring to life the operational history of this tank from the deserts of the Sinai to the harsh terrain of Afghanistan.

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