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This volume contains many of the papers in the area of algebraic topology presented at the 1984 Solomon Lefschetz Centennial Conference held in Mexico City. Phil Edmonston, Canada's automotive "Dr. Phil," pulls no punches. He says there's never been a better time to buy a new car or truck, thanks to a stronger Canadian dollar and an auto industry offering reduced prices, more cash rebates, low financing rates, bargain leases, and free auto maintenance programs. In this all-new guide he says: Audis are beautiful to behold but hell to own (biodegradable transmissions, "rodent snack" wiring, and mind-boggling depreciation) Many 2011-12 automobiles have "chin-to-chest head restraints, blinding dash reflections, and dash gauges that can't be seen in sunlight, not to mention painful wind-tunnel roar if the rear windows are opened while underway) Ethanol and hybrid fuel-saving claims have more in common with Harry Potter than the Society of Automotive Engineers) GM's 2012 Volt

electric car is a mixture of hype and hypocrisy from the car company that "killed" its own electric car more than a decade ago. You can save \$2,000 by cutting freight fees and "administrative" charges. Diesel annual urea fill-up scams can cost you \$300, including an \$80 "handling" charge for \$25 worth of urea. Lemon-Aid's 2011-12 Endangered Species List: the Chinese Volvo, the Indian Jaguar and Land Rover, the Mercedes-Benz Smart Car, Mitsubishi, and Suzuki.

Halogenated organic compounds constitute one of the largest groups of environmental chemicals. The industrial production of new halogenated organic compounds has increased throughout the last century peaking in the 1960s, and continuing in widespread use today. Organohalides are integral to a variety of industrial applications, including use as solvents, degreasing agents, biocides, pharmaceuticals, plasticizers, hydraulic and heat transfer fluids, and intermediates for chemical synthesis, to name a few. It is important to recognize the beneficial aspects of halogenated organic compounds, as well as their potentially deleterious impact on the environment and health. Recognition of the adverse environmental effects of many types of organohalide compounds has led to efforts to reduce or eliminate the most problematic ones. Although organohalide compounds are typically considered to be anthropogenic industrial compounds, they have their counterpart in several thousands of natural biogenic and geogenic organohalides, representing most classes of organic chemicals. Natural sources account for a significant portion of the global organohalogen budget. This volume, authored by recognized experts in the field, provides a current perspective on how both natural and synthetic organohalides are formed and degraded, and how these processes are incorporated into a global halogen cycle. The focus is on microbial processes, since these play a major role both in the production and degradation, i. e., cycling of

halogenated organic compounds in the environment. This book is organized into five parts. Part I, Introduction, provides a global perspective on the issues of organohalides and their fate in the environment. This book presents a history of shock compression science, including development of experimental, material modeling, and hydrodynamics code technologies over the past six decades at Sandia National Laboratories. The book is organized into a discussion of major accomplishments by decade with over 900 references, followed by a unique collection of 45 personal recollections detailing the trials, tribulations, and successes of building a world-class organization in the field. It explains some of the challenges researchers faced and the gratification they experienced when a discovery was made. Several visionary researchers made pioneering advances that integrated these three technologies into a cohesive capability to solve complex scientific and engineering problems. What approaches worked, which ones did not, and the applications of the research are described. Notable applications include the turret explosion aboard the USS Iowa and the Shoemaker-Levy comet impact on Jupiter. The personal anecdotes and recollections make for a fascinating account of building a world-renowned capability from meager beginnings. This book will be inspiring to the expert, the non expert, and the early-career scientist. Undergraduate and graduate students in science and engineering who are contemplating different fields of study should find it especially compelling.

FROM the end of the thirteenth to the beginning of the fifteenth century may be called the golden age of mystical literature in the vernacular. In Germany, we find Mechthild of Magdeburg (d. 1277), Meister Eckhart (d. 1327), Johannes Tauler (d. 1361), and Heinrich Suso (d. 1365); in Flanders, Jan Ruysbroek (d. 1381); in Italy, Dante Alighieri himself (d. 1321), Jacopone da Todi (d. 1306), St. Catherine of Siena (d.

1380), and many lesser writers who strove, in prose or in poetry, to express the hidden things of the spirit, the secret intercourse of the human soul with the Divine, no longer in the official Latin of the Church, but in the language of their own people, "a man's own vernacular," which "is nearest to him, inasmuch as it is most closely united to him." [1] In England, the great names of Richard Rolle, the Hermit of Hampole (d. 1349), of Walter Hilton (d. 1396), and of Mother Juliana of Norwich, whose Revelation of Divine Love professedly date from 1373, speak for themselves. The seven tracts or treatises before us were published in 1521 in a little quarto volume: "Imprynted at London in Poules chyrchyarde at the sygne of the Trynyte, by Henry Pepwell. In the yere of our lorde God, M.CCC.CC.XXI., the xvi. daye of Nouembre." They may, somewhat loosely speaking, be regarded as belonging to the fourteenth century, though the first and longest of them professes to be but a translation of the work of the great Augustinian mystic of an earlier age.

100% of this book's proceeds will be donated to two military charities: the Special Operation Warrior Foundation and the Sua Sponte Foundation. The US Army Rangers are the world's premier light infantry fighting force. This book contains all of the materials of the official Ranger handbook carried by all Ranger school students. This is a large desk-top/bookshelf (8.5x11") sized copy. Unlike other versions of this book for sale (check their feedback), this book is properly formatted with text large enough to actually read! The history of the American Ranger is a long and colorful saga of courage, daring, and outstanding leadership. It is a story of men whose skills in the art of fighting have seldom been surpassed. The United States Army Rangers are an elite military formation that has existed, in some form or another, since the American Revolution. A group of highly-trained and well-organized soldiers, US Army

Rangers must be prepared to handle any number of dangerous, life-threatening situations at a moment's notice-and they must do so calmly and decisively. This is their handbook. Packed with down-to-earth, practical information, The Ranger Handbook contains chapters on Ranger leadership, battle drills, survival, and first aid, as well as sections on military mountaineering, aviation, waterborne missions, demolition, reconnaissance and communications. If you want to be prepared for anything, this is the book for you. Readers interested in related titles from The U.S. Army will also want to see: Army Guerrilla Warfare Handbook (ISBN: 9781626542730) Army Guide to Boobytraps (ISBN: 9781626544703) Army Improvised Munitions Handbook (ISBN: 9781626542679) Army Leadership Field Manual FM 22-100 (ISBN: 9781626544291) Army M-1 Garand Technical Manual (ISBN: 9781626543300) Army Physical Readiness Training with Change FM 7-22 (ISBN: 9781626544017) Army Special Forces Guide to Unconventional Warfare (ISBN: 9781626542709) Army Survival Manual FM 21-76 (ISBN: 9781626544413) Army/Marine Corps Counterinsurgency Field Manual (ISBN: 9781626544246) Map Reading and Land Navigation FM 3-25.26 (ISBN: 9781626542983) Rigging Techniques, Procedures, and Applications FM 5-125 (ISBN: 9781626544338) Special Forces Sniper Training and Employment FM 3-05.222 (ISBN: 9781626544482) The Infantry Rifle Platoon and Squad FM 3-21.8 / 7-8 (ISBN: 9781626544277) Understanding Rigging (ISBN: 9781626544673) The primary purpose of the Manual of Classification of Motor Vehicle Traffic Accidents is to promote uniformity and comparability of motor vehicle traffic accident statistics now being developed in Federal, state and local jurisdictions. This manual is divided into two sections, one containing definitions and one containing classification instructions. Little is more dangerous to U.S. forces fighting insurgents in hot spots around the world than improvised explosive

devices. It's the weapon of choice for under-funded forces aimed to attack American soldiers with low risk to themselves. This official U.S. manual is the complete guide to using and dismantling boobytraps. Here you can learn how to assemble, use, detect, and remove boobytraps and demolition items in almost any situation. With intricate and detailed diagrams, you'll discover how army troops can disguise boobytraps in household items such as irons, teapots, and televisions; in structures such as window frames, stairways, and wooden beams; and in outdoor areas, in bushes and underground. Find out how boobytraps work, why they are used in the army, and the tactics behind their set-up. Learn the mechanics of the various types of firing devices, detonators, fuses, cords, adapters, blasting caps, and lighters. Also included are detailed instructions for detecting and removing boobytraps. The U.S. Army Guide to Boobytraps explains the responsibilities and safety issues that should be thoroughly understood by anyone using any weapon. Any military enthusiast will appreciate the level of detail this field manual offers. This Bureau of Mines report covers the latest technology in explosives and blasting procedures. It includes information and procedures developed by Bureau research, explosives manufacturers, and the mining industry. It is intended for use as a guide in developing training programs and also to provide experienced blasters an update on the latest state of technology in the broad field of explosives and blasting. Types of explosives and blasting agents and their key explosive and physical properties are discussed. Explosives selection criteria are described. The features of the traditional initiation systems - electrical, detonating cord, and cap and fuse - are pointed out, and the newer nonelectric initiation systems are discussed. Various blasthole priming techniques are described. Blasthole loading of various explosive types is covered. Blast

design, including geologic considerations, for both surface and underground blasting is detailed. Environmental effects of blasting such as flyrock and air and ground vibrations are discussed along with techniques of measuring and alleviating these undesirable side effects. Blasting safety procedures are detailed in the chronological order of the blasting process. The various Federal blasting regulations are enumerated along with their Code of Federal Regulations citations. An extensive glossary of blasting related terms is included along with references to articles providing more detailed information on the aforementioned items. Emphasis in the report has been placed on practical considerations. Documents the Russian prime minister's rapid ascent from a low-level KGB operative to the presidency, describing his selection by an ailing Boris Yeltsin's oligarchy and the ways in which the author believes that his views and ambitions have renewed Russia's threatening position to its citizens and the world. By the author of Perfect Rigor. Reprint. 35,000 first printing. This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file. Dongri to Dubai is the first ever attempt to chronicle the history of the Mumbai mafia. It is the story of notorious gangsters like Haji Mastan, Karim Lala, Varadarajan Mudaliar, Chhota Rajan, Abu Salem, but above all, it is the story of a young man who went astray despite having a father in the police force. Dawood Ibrahim was initiated into crime as a pawn in the hands of the Mumbai police and went on to wipe out the competition and eventually became the Mumbai police's own nemesis. The narrative encompasses several milestones in the history of crime in India, from the rise of the Pathans, formation of the Dawood gang, the first ever supari, mafia's nefarious role in Bollywood, Dawood's

move to Karachi, and Pakistan's subsequent alleged role in sheltering one of the most wanted persons in the world. This story is primarily about how a boy from Dongri became a don in Dubai, and captures his bravado, cunningness, focus, ambition, and lust for power in a gripping narrative. The meticulously researched book provides an in-depth and comprehensive account of the mafia's games of supremacy and internecine warfare.

CD-ROM contains: Working Model 2D Homework Edition 4.1 -- Working Model simulations -- Author-written programs (including FOURBAR and DYNACAM) -- Scripted Matlab analysis and simulations files -- FE Exam Review for Kinematics and Applied Dynamics.

This compendium of everything that's new in cars and trucks is packed with feedback from Canadian drivers, insider tips, internal service bulletins, and confidential memos to help the consumer select what's safe, reliable, and fuel-frugal. Deals comprehensively and practically with effects, causes and behaviour of avalanches, protection of ski areas, highways and villages, and safety and rescue.

Contents - 1 The History of Fireworks - 2 Firework Material - 3 General Pyrotechnic Principles - 4 Mixing and Charging - 5 Containers - 6 Stars - 7 Colored Fires, Bengals, Lances, Portfires, Torches - 8 Roman Candles, Comets, Mines - 9 Noisemakers - 10 Rockets - 11 Drivers, Saxons, Tourbillions - 12 Shells - 13 Gerbs, Foundations, Rains, Squibs, Cones - 14 Pinwheels and Crackers - 15 Indoor Fireworks - 16 Fuses, Quickmatch - 17 Smoke - 18 Exhibition Fireworks - 19 The Manufacturing Processes for Firework Compositions - Reference - Index

The history of the American Ranger is a long and colorful saga of courage, daring, and outstanding leadership. It is a story of men whose skills in the art of fighting have seldom been surpassed. The United States Army Rangers are an elite military formation that has existed, in some form or another, since the American Revolution. A group of

highly-trained and well-organized soldiers, US Army Rangers must be prepared to handle any number of dangerous, life-threatening situations at a moment's notice-and they must do so calmly and decisively. This is their handbook. Packed with down-to-earth, practical information, The Ranger Handbook contains chapters on Ranger leadership, battle drills, survival, and first aid, as well as sections on military mountaineering, aviation, waterborne missions, demolition, reconnaissance and communications. If you want to be prepared for anything, this is the book for you. Readers interested in related titles from The U.S. Army will also want to see: Army Guerrilla Warfare Handbook (ISBN: 9781626542730) Army Guide to Boobytraps (ISBN: 9781626544703) Army Improvised Munitions Handbook (ISBN: 9781626542679) Army Leadership Field Manual FM 22-100 (ISBN: 9781626544291) Army M-1 Garand Technical Manual (ISBN: 9781626543300) Army Physical Readiness Training with Change FM 7-22 (ISBN: 9781626544017) Army Special Forces Guide to Unconventional Warfare (ISBN: 9781626542709) Army Survival Manual FM 21-76 (ISBN: 9781626544413) Army/Marine Corps Counterinsurgency Field Manual (ISBN: 9781626544246) Map Reading and Land Navigation FM 3-25.26 (ISBN: 9781626542983) Rigging Techniques, Procedures, and Applications FM 5-125 (ISBN: 9781626544338) Special Forces Sniper Training and Employment FM 3-05.222 (ISBN: 9781626544482) The Infantry Rifle Platoon and Squad FM 3-21.8 / 7-8 (ISBN: 9781626544277) Understanding Rigging (ISBN: 9781626544673) U.S. and allied combat operations continue to highlight the value of unmanned systems in the modern combat environment. Combatant Commanders (CCDRs) and warfighters value the inherent features of unmanned systems, especially their persistence, versatility, and reduced risk to human life. The U.S. military Services are fielding these systems in rapidly increasing numbers across all domains: air, ground, and

maritime. Unmanned systems provide diverse capabilities to the joint commander to conduct operations across the range of military operations: environmental sensing and battlespace awareness; chemical, biological, radiological, and nuclear (CBRN) detection; counter-improvised explosive device (C-IED) capabilities; port security; precision targeting; and precision strike. Furthermore, the capabilities provided by these unmanned systems continue to expand. Military demolitions are the destruction by fire, water, explosive, and mechanical means of areas, structures, facilities, or materials to accomplish a military objective. The U.S. Army Explosives and Demolitions Handbook is a guide to the use of explosives in the destruction of military obstacles from the Department of the U.S. Army. This guide includes information on types, characteristics, and uses of explosives and auxiliary equipment; preparation, placement, and firing of charges; safety precautions; handling, transportation, and storage of explosives; deliberate and hasty demolition methods; and much more. Applicable to nuclear and nonnuclear warfare, and having offensive and defensive uses, the knowledge one will come away with from reading this handbook is invaluable. High Explosives and Propellants, Second Edition is a four-part book classified into High Explosives, Blasting Accessories, Application of High Explosives, and Deflagrating and Propellant Explosives. Part I, High Explosives, centers on the general principles, manufacture, design, and assessment of this type of explosive. Part II, Blasting Accessories, describes initiation of explosives and different types of detonators. Part III, Application of High Explosives, deals with the commercial and military applications of high explosives. The last part, Deflagrating and Propellant Explosives, discusses the manufacture, properties, design, and application of propellants. South Armagh was first described as "Bandit Country" by

Merlyn Rees when he was Northern Ireland's Secretary of State, and for nearly three decades it has been the most dangerous posting in the world for soldiers. Toby Harnden has stripped away the myth and propaganda associated with South Armagh to produce one of the most compelling and important books of the subject. Drawing on secret documents and interviews in South Armagh's recent history, he tells the inside story of how the IRA came close to bringing the British state to its knees. For the first time, the identities of the men behind the South Quay and Manchester bombings are revealed. Packed with new information, "Bandit Country" penetrates the IRA and the security forces in South Armagh." The world is being transformed physically and politically. Technology is the handmaiden of much of this change. But since the current sweep of global change is transforming the face of warfare, Special Operations Forces (SOF) must adapt to these circumstances. Fortunately, adaptation is in the SOF DNA. This book examines the changes affecting SOF and offers possible solutions to the complexities that are challenging many long-held assumptions. The chapters explore what has changed, what stays the same, and what it all means for U.S. SOF. The authors are a mix of leading experts in technology, business, policy, intelligence, and geopolitics, partnered with experienced special operators who either cowrote the chapters or reviewed them to ensure accuracy and relevance for SOF. Our goal is to provide insights into the changes around us and generate ideas about how SOF can adapt and succeed in the emerging operational environment.

Twelve Years a Slave (1853) is a memoir and slave narrative by Solomon Northup, as told to and edited by David Wilson. Northup, a black man who was born free in New York, details his kidnapping in Washington, D.C. and subsequent sale into slavery. After having been kept in bondage for 12 years in Louisiana by various masters, Northup was able to write to friends

and family in New York, who were in turn able to secure his release. Northup's account provides extensive details on the slave markets in Washington, D.C. and New Orleans and describes at length cotton and sugar cultivation on major plantations in Louisiana. The Atlantean Conspiracy Final Edition is the ultimate encyclopedia exposing the global conspiracy from Atlantis to Zion. Discover how world royalty through the Vatican and secret societies control literally every facet of our lives from behind the scenes and have done so for thousands of years. Topics covered include Presidential Bloodlines, The New World Order, Big Brother, FEMA Concentration Camps, Secret Societies, The Zionist Jew World Order, False Flags & The Hegelian Dialectic, The Lusitania & WWI, Pearl Harbor & WWII, Operation Northwoods, The Gulf of Tonkin & The Vietnam War, The Oklahoma City Bombing, The 9/11 Inside Job, Media Manipulation, The Health Conspiracy, Fluoride, Vaccines, Engineered AIDS, The Meat & Dairy Myth, The Cure for Everything, Masonic Symbology, Numerology, Time Manipulation, The Christian Conspiracy, Astrotheology, Magic Mushrooms, Atlantis, Kundalini, Enlightenment, Geocentric Cosmology, The NASA Moon and Mars Landing Hoaxes, Aliens, Controlled Opposition, and much more. The U.S. Army fought World War II with materiel much of which was developed in the decade prior to our entry, particularly in the period following the German blitz in Poland. Our efforts to develop munitions to the point where our armies could cope on equal terms with those of potential enemies are covered here in this, the first of three projected volumes on the history of the Ordnance Department in World War II. How well the Ordnance Department succeeded in matching the Germans in quality continues to be a matter of debate both within the Ordnance Department itself, and between the using arms and the Department. That the battle of quantity was won-with the help of a superb industrial machine-can hardly

be denied. This volume, the result of diligent research by Dr. Constance McL. Green and her associates, should interest not only military men but also scientists, industrialists, and laymen in general. Among other things, it shows the urgent necessity of a directed, continuous, and intensive research program and the danger in failing to recognize and profit by developments abroad. Also shown is the inherent time interval between the drawing board and the production of the end item in quantity." Surface and Underground Excavations – Methods, Techniques and Equipment (2nd edition) covers the latest technologies and developments in the excavation arena at any locale: surface or underground. In the first few chapters, unit operations are discussed and subsequently, excavation techniques are described for various operations: tunnelling, drifting, raising, sinking, stoping, quarrying, surface mining, liquidation and mass blasting as well as construction of large subsurface excavations such as caverns and underground chambers. The design, planning and development of excavations are treated in a separate chapter. Especially featured are methodologies to select stoping methods through incremental analysis. Furthermore, this edition encompasses comprehensive sections on mining at 'ultra depths', mining difficult deposits using non-conventional technologies, mineral inventory evaluation (ore – reserves estimation) and mine closure. Concerns over Occupational Health and Safety (OHS), environment and loss prevention, and sustainable development are also addressed in advocating a solution to succeed within a scenario of global competition and recession. This expanded second edition has been wholly revised, brought fully up-to-date and includes (wherever feasible) the latest trends and best practices, case studies, global surveys and toolkits as well as questions at the end of each chapter. This volume will now be even more appealing to students in

earth sciences, geology, and in civil, mining and construction engineering, to practicing engineers and professionals in these disciplines as well as to all with a general or professional interest in surface and underground excavations. Handy (and often hilarious) hacks from the resourceful TV hero. Includes illustrations! For over thirty years, the name MacGyver has been synonymous with astonishing feats of ingenuity, from fixing a car with nothing but water and egg whites to busting out of jail using a hairpin and a pair of repurposed handcuffs to, of course, saving the world with his favorite weapon, a simple paperclip. What you might not know is that every trick that the resourceful secret agent pulls off on CBS's hit show has been tested and fact-checked by experts, and really works . . . most of the time. No one is saying that you should craft a DIY airplane out of trash bags and a lawnmower engine. But with this book, you could. The first official how-to guide to the MacGyver universe, this book is packed with drawings and step-by-step descriptions of the hacks that made this character the world's most resourceful secret agent. It's lots of fun for fans of the new hit series as well as the classic show that started it all—or anyone who enjoys a bit of applied physics and clever problem-solving. This comprehensive textbook covers all major topics related to the utilization of mineral resources for human activities. It begins with general concepts like definitions of mineral resources, mineral resources and humans, recycling mineral resources, distribution of minerals resources across Earth, and international standards in mining, among others. Then it turns to a classification of mineral resources, covering the main types from a geological standpoint. The exploration of mineral resources is also treated, including geophysical methods of exploration, borehole geophysical logging, geochemical methods, drilling methods, and mineral deposit models in exploration.

Further, the book addresses the evaluation of mineral resources, from sampling techniques to the economic evaluation of mining projects (i.e. types and density of sampling, mean grade definition and calculation, Sichel's estimator, evaluation methods – classical and geostatistical, economic evaluation – NPV, IRR, and PP, estimation of risk, and software for evaluating mineral resources). It subsequently describes key mineral resource exploitation methods (open pit and underground mining) and the mineral processing required to obtain saleable products (crushing, grinding, sizing, ore separation, and concentrate dewatering, also with some text devoted to tailings dams). Lastly, the book discusses the environmental impact of mining, covering all the aspects of this very important topic, from the description of diverse impacts to the environmental impact assessment (EIA), which is essential in modern mining projects. This book examines signal processing techniques for cognitive radios. The book is divided into three parts: Part I, is an introduction to cognitive radios and presents a history of the cognitive radio (CR), and introduce their architecture, functionalities, ideal aspects, hardware platforms, and state-of-the-art developments. Dr. Jayaweera also introduces the specific type of CR that has gained the most research attention in recent years: the CR for Dynamic Spectrum Access (DSA). Part II of the book, Theoretical Foundations, guides the reader from classical to modern theories on statistical signal processing and inference. The author addresses detection and estimation theory, power spectrum estimation, classification, adaptive algorithms (machine learning), and inference and decision processes. Applications to the signal processing, inference and learning problems encountered in cognitive radios are interspersed throughout with concrete and accessible examples. Part III of the book, Signal Processing in Radios, identifies

the key signal processing, inference, and learning tasks to be performed by wideband autonomous cognitive radios. The author provides signal processing solutions to each task by relating the tasks to materials covered in Part II. Specialized chapters then discuss specific signal processing algorithms required for DSA and DSS cognitive radios. This is the first comprehensive overview of this topic. It serves as a single source for information about the properties, preparation, and uses of all relevant primary explosives. The first chapter provides background such as the basics of initiation and differences between requirements on primary explosives used in detonators and igniters. The authors then clarify the influence of physical characteristics on explosive properties, focusing on those properties required for primary explosives. Furthermore, the issue of sensitivity is discussed. All the chapters on particular groups of primary explosives are structured in the same way, including introduction, physical and chemical properties, explosive properties, preparation and documented use. The authors thoroughly verified all data and information. A unique feature of this book are original microscopic images of some explosives.

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