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KEY=POOL - EVIE SWANSON

POOL BOOK

Technical Books for the Layperson, Incorporated (Tbl)

THE ULTIMATE POOL MAINTENANCE MANUAL : SPAS, POOLS, HOT TUBS, ROCKSCAPES, AND OTHER WATER FEATURES, 2ND EDITION

SPAS, POOLS, HOT TUBS, ROCKSCAPES, AND OTHER WATER FEATURES, 2ND EDITION

McGraw-Hill Prof Med/Tech ***The secrets of water maintenance trade professionals are revealed in this detail-by-detail guide to keeping pools, spas, and other recreational water containment units in tip-top shape. *Offers inside-out coverage of chlorine alternatives, automation, noise control, pool-side safety, portable spas--and everything from minor maintenance to major fixes and remodeling. *A must for pool maintenance and spa technicians, this book includes environmentally friendly product resources, along with troubleshooting tips and project checklists that make caring for a pool or spa less costly.**

MODERN ENGINEERING FOR DESIGN OF LIQUID-PROPELLANT ROCKET ENGINES

AIAA

WORLD MIGRATION REPORT 2020

United Nations **Since 2000, IOM has been producing world migration reports. The World Migration Report 2020, the tenth in the world migration report series, has been produced to contribute to increased understanding of migration throughout the world. This new edition presents key data and information on migration as well as thematic chapters on highly topical migration issues, and is structured to focus on two key contributions for readers: Part I: key information on migration and migrants (including migration-related statistics); and Part II: balanced, evidence-based analysis of complex and emerging migration issues.**

ROOT ECOLOGY

Springer Science & Business Media **In the course of evolution, a great variety of root systems have learned to overcome the many physical, biochemical and biological problems brought about by soil. This development has made them a fascinating object of scientific study. This volume gives an overview of how roots have adapted to the soil environment and which roles they play in the soil ecosystem. The text describes the form and function of roots, their temporal and spatial distribution, and their turnover rate in various ecosystems. Subsequently, a physiological background is provided for basic functions, such as carbon acquisition, water and solute movement, and for their responses to three major abiotic stresses, i.e. hard soil structure, drought and flooding. The volume concludes with the interactions of roots with other organisms of the complex soil ecosystem, including symbiosis, competition, and the function of roots as a food source.**

IGNITION!

AN INFORMAL HISTORY OF LIQUID ROCKET PROPELLANTS

Rutgers University Press **This newly reissued debut book in the Rutgers University Press Classics Imprint is the story of the search for a rocket propellant which could be trusted to take man into space. This search was a hazardous enterprise carried out by rival labs who worked against the known laws of nature, with no guarantee of success or safety. Acclaimed scientist and sci-fi author John Drury Clark writes with irreverent and eyewitness immediacy about the development of the explosive fuels strong enough to negate the relentless restraints of gravity. The resulting volume is as much a memoir as a work of history, sharing a behind-the-scenes view of an enterprise which eventually took men to the moon, missiles to the planets, and satellites to outer space. A classic work in the history of science, and described as "a good book on rocket stuff…that's a really fun one" by SpaceX founder Elon Musk, readers will want to get their hands on this influential classic, available for the first time in decades.**

THE FUTURE OF THE U.S. INTERCONTINENTAL BALLISTIC MISSILE FORCE

Rand Corporation **The authors assess alternatives for a next-generation intercontinental ballistic missile (ICBM) across a broad set of potential characteristics and situations. They use the current Minuteman III as a baseline to develop a**

framework to characterize alternative classes of ICBMs, assess the survivability and effectiveness of possible alternatives, and weigh those alternatives against their cost.

A COMPANION TO CONTEMPORARY BRITAIN 1939 - 2000

John Wiley & Sons **A Companion to Contemporary Britain covers the key themesand debates of 20th-century history from the outbreak of the SecondWorld War to the end of the century. Assesses the impact of the Second World War Looks at Britain's role in the wider world, including thelegacy of Empire, Britain's 'specialrelationship' with the United States, and integration withcontinental Europe Explores cultural issues, such as class consciousness,immigration and race relations, changing gender roles, and theimpact of the mass media Covers domestic politics and the economy Introduces the varied perspectives dominating historicalwriting on this period Identifies the key issues which are likely to fuel futuredebate**

THE UNIVERSAL MACHINE

FROM THE DAWN OF COMPUTING TO DIGITAL CONSCIOUSNESS

Springer Science & Business Media **The computer unlike other inventions is universal; you can use a computer for many tasks: writing, composing music, designing buildings, creating movies, inhabiting virtual worlds, communicating... This popular science history isn't just about technology but introduces the pioneers: Babbage, Turing, Apple's Wozniak and Jobs, Bill Gates, Tim Berners-Lee, Mark Zuckerberg. This story is about people and the changes computers have caused. In the future ubiquitous computing, AI, quantum and molecular computing could even make us immortal. The computer has been a radical invention. In less than a single human life computers are transforming economies and societies like no human invention before.**

PROCESS ENGINEERING AND INDUSTRIAL MANAGEMENT

John Wiley & Sons **Process Engineering, the science and art of transforming rawmaterials and energy into a vast array of commercial materials, wasconceived at the end of the 19th Century. Its history in the roleof the Process Industries has been quite honorable, and techniquesand products have contributed to improve health, welfare andquality of life. Today, industrial enterprises, which are still amajor source of wealth, have to deal with new challenges in aglobal world. They need to reconsider their strategy taking intoaccount environmental constraints, social requirements, profit,competition, and resource depletion. "Systems thinking" is a prerequisite from processdevelopment at the lab level to good project management. Newmanufacturing concepts have to be considered, taking into accountLCA, supply chain management, recycling, plant flexibility,continuous development, process intensification andinnovation. This book combines experience from academia and industry in thefield of industrialization, i.e. in all processes involved in theconversion of research into successful operations. Enterprises arefacing major challenges in a world of fierce competition andglobalization. Process engineering techniques provide ProcessIndustries with the necessary tools to cope with these issues. Thechapters of this book give a new approach to the management oftechnology, projects and manufacturing. Contents Part 1: The Company as of Today 1. The Industrial Company: its Purpose, History, Context, and itsTomorrow?, Jean-Pierre Dal Pont. 2. The Two Modes of Operation of the Company – Operationaland Entrepreneurial, Jean-Pierre Dal Pont. 3. The Strategic Management of the Company: Industrial Aspects,Jean-Pierre Dal Pont. Part 2: Process Development and Industrialization 4. Chemical Engineering and Process Engineering, Jean-Pierre DalPont. 5. Foundations of Process Industrialization, Jean-FrançoisJoly. 6. The Industrialization Process: Preliminary Projects, Jean-PierreDal Pont and Michel Royer. 7. Lifecycle Analysis and Eco-Design: Innovation Tools forSustainable Industrial Chemistry, Sylvain Caillol. 8. Methods for Design and Evaluation of Sustainable Processes andIndustrial Systems, Catherine Azzaro-Pantel. 9. Project Management Techniques: Engineering, Jean-Pierre DalPont. Part 3: The Necessary Adaptation of the Company for theFuture 10. Japanese Methods, Jean-Pierre Dal Pont. 11. Innovation in Chemical Engineering Industries, Oliver Potierand Mauricio Camargo. 12. The Place of Intensified Processes in the Plant of the Future,Laurent Falk. 13. Change Management, Jean-Pierre Dal Pont. 14. The Plant of the Future, Jean-Pierre Dal Pont.**

RCAF WAR PRIZE FLIGHTS, GERMAN AND JAPANESE WARBIRD SURVIVORS

iUniverse **This handbook concerns the collection of Air Technical Intelligence, and the test flying of war prizes carried out by two RCAF bomber pilots who were posted to the Royal Aircraft Establishment's Foreign Aircraft Flight, Farnborough, in the United Kingdom in May 1945. Their primary task was to visit former Luftwaffe airfields, and to find and fly back any aircraft they deemed worthy of evaluation. The list of aircraft found here does not include every German combat aircraft of the Second World War, as it focuses on those warbirds captured and flown by members of the RCAF, or sent to Canada as war prizes. Very few of these rare aircraft exist today, and therefore, information on known locations where German, Japanese and Italian warbird survivors may be found is included. As a member of the Canadian Aviation Preservation Association and the Canadian Aviation Artists Association, the author strongly supports the preservation of Canada's aviation heritage. The primary intent of this handbook is to provide information for aviation artists and enthusiasts looking for that unusual "never before painted" military aviation subject, and to support the efforts of those engaged in the search for those missing warbirds for which no examples currently exist.**

STRUCTURAL ENGINEER'S POCKET BOOK

Elsevier **Until now there has been no comprehensive pocket reference guide for professional and student structural**

engineers. The Structural Engineers Pocket Book is a unique compilation of all table, data, facts, formulae and rules of thumb needed for scheme design by structural engineers in the office, in transit or on site. By bringing together data from many sources, this pocket book is a compact source of job-simplifying information at an affordable price. It is a first point of reference as well as saving valuable time spent trying to track down information that is needed on a daily basis. This may be a small book in terms of its physical dimensions, but it contains a wealth of useful engineering knowledge. Concise and precise, the book is split into 13 sections, with quick and clear access to subject areas including: timber, masonry, concrete, aluminium and glass. British Standards are used and referenced throughout. *the only book of its kind for structural engineers. *brings together information from many different sources for the first time. *comprehensive, yet concise and affordable.

HARD ROCK MINER'S HANDBOOK

REAL-WORLD PYTHON

A HACKER'S GUIDE TO SOLVING PROBLEMS WITH CODE

No Starch Press **A project-based approach to learning Python programming for beginners. Intriguing projects teach you how to tackle challenging problems with code. You've mastered the basics. Now you're ready to explore some of Python's more powerful tools. Real-World Python will show you how. Through a series of hands-on projects, you'll investigate and solve real-world problems using sophisticated computer vision, machine learning, data analysis, and language processing tools. You'll be introduced to important modules like OpenCV, NumPy, Pandas, NLTK, Bokeh, Beautiful Soup, Requests, HoloViews, Tkinter, turtle, matplotlib, and more. You'll create complete, working programs and think through intriguing projects that show you how to: • Save shipwrecked sailors with an algorithm designed to prove the existence of God • Detect asteroids and comets moving against a starfield • Program a sentry gun to shoot your enemies and spare your friends • Select landing sites for a Mars probe using real NASA maps • Send unbreakable messages based on a book code • Survive a zombie outbreak using data science • Discover exoplanets and alien megastructures orbiting distant stars • Test the hypothesis that we're all living in a computer simulation • And more! If you're tired of learning the bare essentials of Python Programming with isolated snippets of code, you'll relish the relevant and geeky fun of Real-World Python!**

COGNITION IN THE WILD

MIT Press **Edwin Hutchins combines his background as an anthropologist and an open ocean racing sailor and navigator in this account of how anthropological methods can be combined with cognitive theory to produce a new reading of cognitive science. His theoretical insights are grounded in an extended analysis of ship navigation—its computational basis, its historical roots, its social organization, and the details of its implementation in actual practice aboard large ships. The result is an unusual interdisciplinary approach to cognition in culturally constituted activities outside the laboratory—"in the wild." Hutchins examines a set of phenomena that have fallen in the cracks between the established disciplines of psychology and anthropology, bringing to light a new set of relationships between culture and cognition. The standard view is that culture affects the cognition of individuals. Hutchins argues instead that cultural activity systems have cognitive properties of their own that are different from the cognitive properties of the individuals who participate in them. Each action for bringing a large naval vessel into port, for example, is informed by culture: the navigation team can be seen as a cognitive and computational system. Introducing Navy life and work on the bridge, Hutchins makes a clear distinction between the cognitive properties of an individual and the cognitive properties of a system. In striking contrast to the usual laboratory tasks of research in cognitive science, he applies the principal metaphor of cognitive science—cognition as computation (adopting David Marr's paradigm)—to the navigation task. After comparing modern Western navigation with the method practiced in Micronesia, Hutchins explores the computational and cognitive properties of systems that are larger than an individual. He then turns to an analysis of learning or change in the organization of cognitive systems at several scales. Hutchins's conclusion illustrates the costs of ignoring the cultural nature of cognition, pointing to the ways in which contemporary cognitive science can be transformed by new meanings and interpretations. A Bradford Book**

REFRAMING THE URBAN CHALLENGE IN AFRICA

KNOWLEDGE CO-PRODUCTION FROM THE SOUTH

Routledge **This book explores the changing dynamics and challenges behind the rapid expanse of Africa's urban population. Africa's urban age is underway. With the world's fastest growing urban population, the continent is rapidly transforming from one that is largely rural, to one that is largely urban. Often facing limited budgets, those tasked with managing African cities require empirical evidence on the nature of demands for infrastructure, escalating environmental hazards, and ever-expanding informal settlements. Drawing on the work of the African Urban Research Initiative, this book brings together contributions from local researchers investigating key themes and challenges within their own contexts. An important example of urban knowledge co-production, the book demonstrates the regional diversity that can be seen as the main feature of African urbanism, with even well-accepted concepts such as informality manifesting in markedly different ways from place to place. Providing an important nuanced perspective on the heterogeneity of African cities and the challenges they face, this book will be an important resource for researchers across development studies, African studies, and urban studies.**

HUMAN DECISIONS

THOUGHTS ON AI

UNESCO Publishing

THE ADVERTISING RED BOOKS: BUSINESS CLASSIFICATIONS

THE THREE ROADS

Vintage Crime/Black Lizard **Silken skin pale against dark hair, red lips provocatively smiling at him—that's how Lieutenant Bret Taylor remembered Lorraine. He was drunk when he married her, stone cold sober when he found her dead. Out on the sunlit streets of L.A. walked the man—her lover, her killer—who had been with her that fatal night. Taylor intended to find him. And when he did, the gun in his pocket would provide the quickest kind of justice. But first Taylor had to find something else: an elusive memory so powerful it drove him down three terrifying roads toward self-destruction—grief, ecstasty, and death.**

WHO OWNS WHOM

NORTH & SOUTH AMERICA

POPLARS AND WILLOWS

TREES FOR SOCIETY AND THE ENVIRONMENT

CABI **Poplars and willows form an important component of forestry and agricultural systems, providing a wide range of wood and non-wood products. This book synthesizes research on poplars and willows, providing a practical worldwide overview and guide to their basic characteristics, cultivation and use, issues, problems and trends. Prominence is given to environmental benefits and the importance of poplar and willow cultivation in meeting the needs of people and communities, sustainable livelihoods, land use and development.**

TAMING LIQUID HYDROGEN

THE CENTAUR UPPER STAGE ROCKET, 1958-2002

200 PROOFS EARTH IS NOT A SPINNING BALL

Createspace Independent Publishing Platform **The most popular flat Earth book ever written, translated into over 20 languages, 200 Proofs Earth is Not a Spinning Ball inspired by John Carpenter's 19th century opus "100 Proofs Earth is Not a Globe," doubles the number of natural scientific evidences proving Earth is not a tilting, wobbling, spinning space-ball.Wolves in sheep**

POPULAR MECHANICS

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

THE IMPACT OF PUBLICITY ON CORPORATE OFFENDERS

SUNY Press **Uncertainty surrounds the use of publicity as a means of controlling corporate crime. On the one hand, some agree with Justice Brandeis's dictum that light is "the best of disinfectants...the most efficient policeman." On the other hand, many believe that corporations' internal affairs are effectively shrouded with a thick fog that prevents the light of public scrutiny from reaching them. The Impact of Publicity on Corporate Offenders is the first study to go beyond the rhetoric, through an examination of corporate experience. Fisse and Braithwaite have carried out a qualitative inquiry concerning 17 large corporations involved in publicity crises. Based mainly on interviews, the inquiry includes company employees and former employees, union officials, officers of government regulatory agencies, competitors, independent accountants, government prosecutors, public interest activists, judicial officers, stockbrokers, and other experts.**

SCIENCE AND TECHNICAL WRITING

A MANUAL OF STYLE

Routledge **With this new edition, Science and Technical Writing confirms its position as the definitive style resource for thousands of established and aspiring technical writers. Editor Philip Rubens has fully revised and updated his popular 1992 edition, with full, authoritative coverage of the techniques and technologies that have revolutionized electronic communications over the past eight years.**

WAR IN THE AGE OF INTELLIGENT MACHINES

The author aims to show how the emergence of intelligent and autonomous bombs and missiles equipped with artificial

perception and decision-making capabilities represents a profound historical shift in the relation of human beings both to machines and to information.

MANAGING RISK IN ORGANIZATIONS

A GUIDE FOR MANAGERS

John Wiley & Sons **Managing Risk in Organizations offers a proven framework forhandling risks across all types of organizations. In thiscomprehensive resource, David Frame—a leading expert in riskmanagement—examines the risks routinely encountered inbusiness, offers prescriptions to assess the effects of variousrisks, and shows how to develop effective strategies to cope withrisks. In addition, the book is filled with practical tools andtechniques used by professional risk practitioners that can bereadily applied by project managers, financial managers, and anymanager or consultant who deals with risk within an organization.Managing Risk in Organizations is filled with illustrativecase studies and Outlines the various types of risk—pure, operational,project, technical, business, and political Reveals what risk management can and cannot accomplish Shows how to organize risk management efforts to conduct riskassessments, manage crises, and recover from disasters Includes a systematic risk management processrisk managementplanning, risk identification, qualitative impact analysis,quantitative impact analysis, risk response planning, andmonitoring control Provides quantitative and qualitative tools to identify andhandle risks This much-needed book will enable organizations to take riskseriously and act proactively.**

BULLETIN OF THE ATOMIC SCIENTISTS

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

COMPUTERS TAKE FLIGHT

A HISTORY OF NASA'S PIONEERING DIGITAL FLY-BY-WIRE PROJECT

United States Government Printing

ALSO INNOVATORS

HOW ONE COMPUTER SALESMAN CONTRIBUTED TO THE DIGITAL REVOLUTION

ANU Press **'Thank you for your order, Mr Mainframe Customer. The cost is £5 million and the lead-time for manufacture will be two years. In the meantime you will have to build a special computer centre to our specification. For our part, our project team will help you recruit and train potential programmers and we shall advise on how you might use the system.' How different from today when the customer will want to see a specific application running before he puts a hand in his/her pocket. Chris Yardley lived the changes as a computer salesman and tells his story of a career living and working in five countries. Warts and all. The ecstasies, the heartbreaks and idiocies of major corporations. His career was not a planned one. In a growing industry, opportunities presented themselves and Chris believes he grasped every one presented. Having written his story, he has had every chapter verified by at least one person who features in that narrative. His respondents have universally endorsed the facts with comments such as 'Wow, I'd forgotten most of that'. 'You have a fantastic memory.' 'I never knew before the full facts of what happened.' 'How have you remembered all the circumstances?' 'It really is a people business.' This is the only book that has followed a computer sales career over almost 50 years.**

CHARIOTS FOR APOLLO

THE NASA HISTORY OF MANNED LUNAR SPACECRAFT TO 1969

Courier Corporation **Written by a trio of experts, this is the definitive reference on the Apollo spacecraft and lunar modules. It traces the design of the vehicles, their development, and their operation in space. More than 100 photographs and illustrations highlight the text, which begins with NASA's origins and concludes with the triumphant Apollo 11 moon mission.**

THE BARBAROUS COAST

Vintage Crime/Black Lizard **The beautiful, high-diving blonde had Hollywood dreams and stars in her eyes but now she seems to have disappeared without a trace. Hired by her hotheaded husband and her rummy "uncle," Lew Archer sniffs around Malibu and finds the stink of blackmail, blood-money, and murder on every pricey silk shirt. Beset by dirty cops, a bumptious boxer turned silver screen pretty boy and a Hollywood mogul with a dark past, Archer discovers the secret of a grisly murder that just won't stay hidden.Lew Archer navigates through the watery, violent world of wealth and privilege, in this electrifying story of obsession gone mad.**

THE TIME OF OUR SINGING

Random House **Jonah, Joseph and Ruth are the children of mixed-race parents determined to protect them from the grinding effects of race. Hothouse children, they are all musically talented, but they cannot be protected from the**

world for long.

INTRODUCTION TO SINGLE CELL OMICS

Frontiers Media SA **Single-cell omics is a progressing frontier that stems from the sequencing of the human genome and the development of omics technologies, particularly genomics, transcriptomics, epigenomics and proteomics, but the sensitivity is now improved to single-cell level. The new generation of methodologies, especially the next generation sequencing (NGS) technology, plays a leading role in genomics related fields; however, the conventional techniques of omics require number of cells to be large, usually on the order of millions of cells, which is hardly accessible in some cases. More importantly, harnessing the power of omics technologies and applying those at the single-cell level are crucial since every cell is specific and unique, and almost every cell population in every systems, derived in either vivo or in vitro, is heterogeneous. Deciphering the heterogeneity of the cell population hence becomes critical for recognizing the mechanism and significance of the system. However, without an extensive examination of individual cells, a massive analysis of cell population would only give an average output of the cells, but neglect the differences among cells. Single-cell omics seeks to study a number of individual cells in parallel for their different dimensions of molecular profile on genome-wide scale, providing unprecedented resolution for the interpretation of both the structure and function of an organ, tissue or other system, as well as the interaction (and communication) and dynamics of single cells or subpopulations of cells and their lineages. Importantly single-cell omics enables the identification of a minor subpopulation of cells that may play a critical role in biological process over a dominant subpolulation such as a cancer and a developing organ. It provides an ultra-sensitive tool for us to clarify specific molecular mechanisms and pathways and reveal the nature of cell heterogeneity. Besides, it also empowers the clinical investigation of patients when facing a very low quantity of cell available for analysis, such as noninvasive cancer screening with circulating tumor cells (CTC), noninvasive prenatal diagnostics (NIPD) and preimplantation genetic test (PGT) for in vitro fertilization. Single-cell omics greatly promotes the understanding of life at a more fundamental level, bring vast applications in medicine. Accordingly, single-cell omics is also called as single-cell analysis or single-cell biology. Within only a couple of years, single-cell omics, especially transcriptomic sequencing (scRNA-seq), whole genome and exome sequencing (scWGS, scWES), has become robust and broadly accessible. Besides the existing technologies, recently, multiplexing barcode design and combinatorial indexing technology, in combination with microfluidic platform exampled by Drop-seq, or even being independent of microfluidic platform but using a regular PCR-plate, enable us a greater capacity of single cell analysis, switching from one single cell to thousands of single cells in a single test. The unique molecular identifiers (UMIs) allow the amplification bias among the original molecules to be corrected faithfully, resulting in a reliable quantitative measurement of omics in single cells. Of late, a variety of single-cell epigenomics analyses are becoming sophisticated, particularly single cell chromatin accessibility (scATAC-seq) and CpG methylation profiling (scBS-seq, scRRBS-seq). High resolution single molecular Fluorescence in situ hybridization (smFISH) and its revolutionary versions (ex. seqFISH, MERFISH, and so on), in addition to the spatial transcriptome sequencing, make the native relationship of the individual cells of a tissue to be in 3D or 4D format visually and quantitatively clarified. On the other hand, CRISPR/cas9 editing-based In vivo lineage tracing methods enable dynamic profile of a whole developmental process to be accurately displayed. Multi-omics analysis facilitates the study of multi-dimensional regulation and relationship of different elements of the central dogma in a single cell, as well as permitting a clear dissection of the complicated omics heterogeneity of a system. Last but not the least, the technology, biological noise, sequence dropout, and batch effect bring a huge challenge to the bioinformatics of single cell omics. While significant progress in the data analysis has been made since then, revolutionary theory and algorithm logics for single cell omics are expected. Indeed, single-cell analysis exert considerable impacts on the fields of biological studies, particularly cancers, neuron and neural system, stem cells, embryo development and immune system; other than that, it also tremendously motivates pharmaceutic RD, clinical diagnosis and monitoring, as well as precision medicine. This book hereby summarizes the recent developments and general considerations of single-cell analysis, with a detailed presentation on selected technologies and applications. Starting with the experimental design on single-cell omics, the book then emphasizes the consideration on heterogeneity of cancer and other systems. It also gives an introduction of the basic methods and key facts for bioinformatics analysis. Secondary, this book provides a summary of two types of popular technologies, the fundamental tools on single-cell isolation, and the developments of single cell multi-omics, followed by descriptions of FISH technologies, though other popular technologies are not covered here due to the fact that they are intensively described here and there recently. Finally, the book illustrates an elastomer-based integrated fluidic circuit that allows a connection between single cell functional studies combining stimulation, response, imaging and measurement, and corresponding single cell sequencing. This is a model system for single cell functional genomics. In addition, it reports a pipeline for single-cell proteomics with an analysis of the early development of Xenopus embryo, a single-cell qRT-PCR application that defined the subpopulations related to cell cycling, and a new method for synergistic assembly of single cell genome with sequencing of amplification product by phi29 DNA polymerase. Due to the tremendous progresses of single-cell omics in recent years, the topics covered here are incomplete, but each individual topic is excellently addressed, significantly interesting and beneficial to scientists working in or affiliated with this field.**

TECHNOLOGY AND THE AIR FORCE

A RETROSPECTIVE ASSESSMENT

DIANE Publishing **Proceedings of a symposium co-sponsored by the Air Force Historical Foundation and the Air Force History and Museums Program. The symposium covered relevant Air Force technologies ranging from the turbo-jet**

revolution of the 1930s to the stealth revolution of the 1990s. Illustrations.

FUNDAMENTALS OF FRANCHISING

Written specifically to help lawyers and non-lawyers brush up on franchise law, this respected publication - now in its fourth edition - is charged with useful definitions, practical tips, and expert advice from experienced franchise law practitioners. This practical guide examines franchise law from a wide-range of experiences and viewpoints. Each chapter is written by two experienced practitioners to provide a well-rounded guide to the fundamentals of franchise law and key issues in the practice, including trademark law; structuring the franchise relationship; disclosure issues; registration; franchise relationship laws; antitrust law; counseling franchisees; and more.

ADVANCES IN MANUFACTURING, PRODUCTION MANAGEMENT AND PROCESS CONTROL

PROCEEDINGS OF THE AHFE 2020 VIRTUAL CONFERENCES ON HUMAN ASPECTS OF ADVANCED MANUFACTURING, ADVANCED PRODUCTION MANAGEMENT AND PROCESS CONTROL, AND ADDITIVE MANUFACTURING, MODELING SYSTEMS AND 3D PROTOTYPING, JULY 16–20, 2020, USA

Springer Nature **This book discusses the latest advances in the broadly defined field of advanced manufacturing and process control. It reports on cutting-edge strategies for sustainable production and product life cycle management, and on a variety of people-centered issues in the design, operation and management of manufacturing systems and processes. Further, it presents digital modeling systems and additive manufacturing technologies, including advanced applications for different purposes, and discusses in detail the implementation of and challenges imposed by 3D printing technologies. Based on three AHFE 2020 Conferences (the AHFE 2020 Virtual Conference on Human Aspects of Advanced Manufacturing, the AHFE 2020 Virtual Conference on Advanced Production Management and Process Control and the AHFE 2020 Virtual Conference on Additive Manufacturing, Modeling Systems and 3D Prototyping, the book merges ergonomics research, design applications, and up-to-date analyses of various engineering processes. It brings together experimental studies, theoretical methods and best practices, highlights future trends and suggests directions for further technological developments and the improved integration of technologies and humans in the manufacturing industry.**

FUNDING A REVOLUTION

GOVERNMENT SUPPORT FOR COMPUTING RESEARCH

National Academies Press **The past 50 years have witnessed a revolution in computing and related communications technologies. The contributions of industry and university researchers to this revolution are manifest; less widely recognized is the major role the federal government played in launching the computing revolution and sustaining its momentum. Funding a Revolution examines the history of computing since World War II to elucidate the federal government's role in funding computing research, supporting the education of computer scientists and engineers, and equipping university research labs. It reviews the economic rationale for government support of research, characterizes federal support for computing research, and summarizes key historical advances in which government-sponsored research played an important role. Funding a Revolution contains a series of case studies in relational databases, the Internet, theoretical computer science, artificial intelligence, and virtual reality that demonstrate the complex interactions among government, universities, and industry that have driven the field. It offers a series of lessons that identify factors contributing to the success of the nation's computing enterprise and the government's role within it.**

DEFENDING AIR BASES IN AN AGE OF INSURGENCY

Military Bookshop **This anthology discusses the converging operational issues of air base defense and counterinsurgency. It explores the diverse challenges associated with defending air assets and joint personnel in a counterinsurgency environment. The authors are primarily Air Force officers from security forces, intelligence, and the office of special investigations, but works are included from a US Air Force pilot and a Canadian air force officer. The authors examine lessons from Vietnam, Iraq, Afghanistan, and other conflicts as they relate to securing air bases and sustaining air operations in a high-threat counterinsurgency environment. The essays review the capabilities, doctrine, tactics, and training needed in base defense operations and recommend ways in which to build a strong, synchronized ground defense partnership with joint and combined forces. The authors offer recommendations on the development of combat leaders with the depth of knowledge, tactical and operational skill sets, and counterinsurgency mind set necessary to be effective in the modern asymmetric battlefield.**