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New Directions Reading, Writing, and Critical Thinking Cambridge University Press New Directions is a thematic reading-writing book aimed at the most advanced learners. It prepares students for the rigors of college-level writing by having them read long, challenging, authentic readings, from a variety of genres, and by having them apply critical thinking skills as a precursor to writing. This emphasis on multiple longer readings gives New Directions its distinctive character. The Social Media Bible Tactics, Tools, and Strategies for Business Success John Wiley & Sons The ultimate comprehensive social media reference book for any business looking to transform its marketing and operational strategies Realizing that social media is dramatically impacting businesses, customers, and everyone connected to them, the authors of The Social Media Bible have consulted with leading social media experts from companies and consulting firms, as well as New York Times bestselling authors nationwide, to assemble a content-rich social media bible that will help businesses increase revenues, improve profitability, and ensure relevance and competitiveness. The book outlines just what social media is, and how to harness its power to achieve a measurable competitive advantage in rapidly changing markets. It allows readers to build a functional knowledge base, and tap into the collaborative power of such social media applications as Facebook, Linked In, Twitter, MySpace, Flickr, and YouTube. The book is part reference, part how-to manual, and part business strategy. For corporate enterprises, small

businesses, and nonprofits alike, the strategies in The Social Media Bible are practical, powerful, and effective ways to connect with customers, prospects, employees, stakeholders, and collaborators. Packed with contributions from top names in the field covering virtually every major topic in social media, this is the perfect social media resource for businesses big and small. Lon Safko (Gilbert, AZ) is an innovator and professional speaker with over 20 years of experience in entrepreneurship, marketing, sales, strategic partnering, speaking, training, writing, and e-commerce. He is the founder of eight successful companies, including Paper Models, Inc. David K. Brake (Mesa, AZ) is the CEO and founder of Content Connections, a company that uses social networking strategies to help clients build economically viable relationships around their content. Radicalization, Terrorism, and Conflict Cambridge Scholars Publishing Radicalization, Terrorism, and Conflict is a collection of scholarly works, authored by international researchers and leading thinkers, addressing contemporary, history-making issues in international security and terrorism from an interdisciplinary perspective. Contributors to this edited volume represent global perspectives, ideas, analysis, and research. Radicalization, Terrorism, and Conflict transmits relevant findings, theory, and policy ideas for scholars of security and terrorism studies, for policy makers, and to the general public who are interested in keeping up with this global area of concern. It provides a jumping-off point for conversation and collaboration that can lead to new knowledge and broader understanding. As an interdisciplinary collection of manuscripts, this book integrates and synthesizes theory, research, and public policy analysis in an effort to solve the complex questions and problems presented by this topic. Recognition of the need to approach the problems of radicalization, terrorism, and interpersonal conflict from an interdisciplinary perspective is gaining strength within academic settings, policy institutes, and global conferences. Unlike most recent edited books on the subject that are on the market at this time, Radicalization, Terrorism, and Conflict provides an interdisciplinary approach to understanding related current issues. This approach encourages a broader perspective and thought process, trans-discipline and global collaboration and cooperation, and an integrated synthesis of knowledge. Radicalization, Terrorism, and Conflict opens with an analysis of the ongoing phenomenon of the Arab Spring. In Section 1, contributors look at how players in the theatres of local and international terror become radicalized. Section 2 analyzes how terrorism becomes manifest in the global theatre and how governments and their actors attempt to prevent it. Section 3 presents research to bring understanding to the actors' behavior and provide settings for future collaboration in understanding these phenomena. Defender: Data and maintenance, Engine and engine systems. Vol 2. Transmission, Chassis and body, Air conditioning and electrical equipment Advances in Fingerprint Technology CRC Press Fingerprints constitute one of the most important categories of physical evidence, and it is among the few that can be truly individualized. During the last two decades, many new

and exciting developments have taken place in the field of fingerprint science, particularly in the realm of methods for developing latent prints and in the growth of imag Interdisciplinary Perspectives on Social Sciences Cambridge Scholars Publishing Interdisciplinary Perspectives on Social Sciences is a collection of essays on educational issues confronting educators and researchers from three continents (Africa, Asia, and Europe). The essays are grouped into three sections. The first, "Human Resources Management", discusses issues such as consumer innovativeness, employee expectations, enterprise competitiveness, the global economy, human resources, internet advertising, job performance, the labour market, privatisation policies, profitability, transformational leadership, and work behaviour. The second part, "International Relations", encompasses topics such as administrative reforms, elections, EU enlargement, mass media, migration, nationalism, and totalitarian thought, while the third, "Sociology", looks at divorce, everyday life practices, the family structure, feminism, gender issues, the legalisation of prostitution, and women's rights. The book will appeal to educators, researchers, and students involved in social sciences. Cold War Liberation The Soviet Union and the Collapse of the Portuguese Empire in Africa, 1961–1975 UNC Press Books Cold War Liberation examines the African revolutionaries who led armed struggles in three Portuguese colonies—Angola, Mozambique, and Guinea-Bissau—and their liaisons in Moscow, Prague, East Berlin, and Sofia. By reconstructing a multidimensional story that focuses on both the impact of the Soviet Union on the end of the Portuguese Empire in Africa and the effect of the anticolonial struggles on the Soviet Union, Natalia Telepneva bridges the gap between the narratives of individual anticolonial movements and those of superpower rivalry in sub-Saharan Africa during the Cold War. Drawing on newly available archival sources from Russia and Eastern Europe and interviews with key participants, Telepneva emphasizes the agency of African liberation leaders who enlisted the superpower into their movements via their relationships with middle-ranking members of the Soviet bureaucracy. These administrators had considerable scope to shape policies in the Portuguese colonies which in turn increased the Soviet commitment to decolonization in the wider region. An innovative reinterpretation of the relationships forged between African revolutionaries and the countries of the Warsaw Pact, Cold War Liberation is a bold addition to debates about policy-making in the Global South during the Cold War. We are proud to offer this book in our usual print and ebook formats, plus as an open-access edition available through the Sustainable History Monograph Project. Advances in Security, Networks, and Internet of Things Proceedings from SAM'20, ICWN'20, ICOMP'20, and ESCS'20 Springer Nature The book presents the proceedings of four conferences: The 19th International Conference on Security & Management (SAM'20), The 19th International Conference on Wireless Networks (ICWN'20), The 21st International Conference on Internet Computing & Internet of Things (ICOMP'20), and The 18th International Conference on Embedded Systems, Cyber-

physical Systems (ESCS'20). The conferences took place in Las Vegas, NV, USA, July 27-30, 2020. The conferences are part of the larger 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE'20), which features 20 major tracks. Authors include academics, researchers, professionals, and students. Presents the proceedings of four conferences as part of the 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE'20); Includes the tracks on security & management, wireless networks, internet computing and IoT, and embedded systems as well as cyber-physical systems; Features papers from SAM'20, ICWN'20, ICOMP'20 and ESCS'20. Hospital-Based Health Technology Assessment The Next Frontier for Health Technology Assessment Springer A timely work describing how localized hospital-based health technology assessment (HB-HTA) complements general, 'arms-length' HTA agency efforts, and what has been the collective global impact of HB-HTA across the globe. While HB-HTA has gained significant momentum over the past few years, expertise in the field, and information on the operation and organization of HB-HTA, has been scattered. This book serves to bring this information together to inform those who are currently working in the field of HTA at the hospital, regional, national or global level. In addition, this book is intended for decision-makers and policy-makers with a stake in determining the uptake and decommissioning of new and established technologies in the hospital setting. HTA has traditionally been performed at the National/Regional level by HTA Agencies, typically linked to governments. Yet hospitals are the main entry door for most health technologies (HTs). Hospital decision-makers must undertake multiple high stakes investment and disinvestment decisions annually for innovative HTs, usually without adequate information. Despite the existence of arms-length HTA Agencies, inadequate information is available to hospital decision-makers either because relevant HTA reports are not yet released at the time of entry of new technologies to the field, or because even when the report exists, the information contained is insufficient to clarify the contextualized informational needs of hospital decision makers. Therefore, there has recently been a rising trend toward hospital-based HTA units and programs. These units/programs complement the work of National/Regional HTA Agencies by providing the key and relevant evidence needed by hospital decision makers in their specific hospital context, and within required decision-making timelines. The emergence of HB-HTA is creating a comprehensive HTA ecosystem across health care levels, which creates better bridges for knowledge translation through relevance and timeliness. The Development Of Large Technical Systems Routledge This book is an outcome of the conference on the development of large technical systems held in Berlin in 1986. It focuses on the comparative analysis of the development of large technical systems, particularly electrical power, railroad, air traffic, telephone, and other forms of telecommunication. Post-Innovation Performance Technological Development and Competition Springer Handbook of Iris Recognition Springer The definitive work on iris

recognition technology, this comprehensive handbook presents a broad overview of the state of the art in this exciting and rapidly evolving field. Revised and updated from the highly-successful original, this second edition has also been considerably expanded in scope and content, featuring four completely new chapters. Features: provides authoritative insights from an international selection of preeminent researchers from government, industry, and academia; reviews issues covering the full spectrum of the iris recognition process, from acquisition to encoding; presents surveys of topical areas, and discusses the frontiers of iris research, including cross-wavelength matching, iris template aging, and anti-spoofing; describes open source software for the iris recognition pipeline and datasets of iris images; includes new content on liveness detection, correcting off-angle iris images, subjects with eye conditions, and implementing software systems for iris recognition. Image Feature Detectors and Descriptors Foundations and Applications Springer This book provides readers with a selection of high-quality chapters that cover both theoretical concepts and practical applications of image feature detectors and descriptors. It serves as reference for researchers and practitioners by featuring survey chapters and research contributions on image feature detectors and descriptors. Additionally, it emphasizes several keywords in both theoretical and practical aspects of image feature extraction. The keywords include acceleration of feature detection and extraction, hardware implantations, image segmentation, evolutionary algorithm, ordinal measures, as well as visual speech recognition. Surveying with Construction Applications Pearson Higher Ed This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Known for its state-of-the-art coverage and clear, concise approach, Surveying with Construction Applications, Seventh Edition covers the latest advances and foundational principles of surveying. Emphasizing instrumentation technology, field data capture, and data-processing techniques, this text highlights real-world applications of surveying to the construction and engineering fields. Ideal as a reference in the field, additional complexities in electronic distance measurement and the order of presentation of surveying topics have been revised in this edition. All state Departments of Transportation (DOTs) in the U.S. and the provincial Transportation/Highways Departments in Canada conduct extensive training sessions for their large staffs. This book covers topics that are taught in these training sessions, in addition to all of the introductory topics needed for survey training. English Language Teaching Research in the Middle East and North Africa Multiple Perspectives Springer This edited collection examines a range of English Language Teaching (ELT) research in the Middle East and North Africa (MENA). While the MENA context has witnessed considerable change in recent years, it has so far been under-represented in ELT research at both the regional and the international level. This book aims to fill that gap by surveying the current state of the field, examining in detail a range of issues and concepts, and suggesting future

directions for further research. It will be of interest to ELT researchers and practitioners in general - not just those based in MENA contexts themselves. The Secure and the Dispossessed How the Military and Corporations are Shaping a Climate-changed World Pluto Press (UK) While the world's scientists and many of its inhabitants despair at the impact of climate change, corporate and military leaders see nothing but opportunities. For them, melting ice caps mean newly accessible fossil fuels, borders to be secured from 'climate refugees', social conflicts to be managed and more failed states in which to intervene. They are 'securing' their assets at the expanse of the planet and its inhabitants.The Secure and the Dispossessed looks at these deadly approaches with a critical eye. It also considers the flip-side: that the legitimacy of the elite is under unprecedented pressure - from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy, food and water.Topics covered include geoengineering, militarism, refugee protection, greenwashing and the agricultural crisis among others. Adaptation and resilience to a climate-changed world is desperately needed, but the form it will take will affect all of our futures. A Political History of the Tigray People's Liberation Front (1975-1991) Revolt, Ideology and Mobilisation in Ethiopia Tsehai Pub and Distributors A Political History of the Tigray People's Liberation Front (1975-1991): Revolt, Ideology, and Mobilisation in Ethiopia, is a comprehensive and critical study that seamlessly integrates the theoretical issues of ethnic self-determination with real life events, processes and empirical observations of the complex history of the TPLF. Its author, Aregawi Berhe, received his doctorate in Social Studies from the Vrije University in Amsterdam. He is also one of the founders and a former commander of the Tigray People's Liberation Front (TPLF), the revolutionary movement that overthrew and replaced the Dergue-the military dictatorship that ruled Ethiopia. In this book, Aregawi unpacks the history of the TPLF and discusses its origins in the Ethiopian student movement, its organization in Tigray and the mobilization of its inhabitants, the creation of a peasant army, the factional struggles within the TPLF, its relations with other liberation movements, and, ultimately, its success in capturing state power. Indian Defence Review Jan-Mar 2017 Lancer Publishers LLC Eurasian Economies Cambridge Scholars Publishing This volume explores the economies of countries in Asia, as well as the former Soviet socialist bloc countries of Central Asia and the Balkans. It analyses the region from the perspective of globalization and regional economic integration, economic growth and sustainable development, international trade and finance, money market and banking systems, labor market and external migration, energy and agricultural sectors. This book will appeal to anyone who is interested in economies of this region, their transition process towards a market economy regime, and their integration in the global world, including academicians from any field of social sciences, as well as decision makers, politicians, businessmen and journalists. Research and Technology R & T Electronic Safety and Soundness

Securing Finance in a New Age World Bank Publications This publication discusses the key factors necessary to foster a secure electronic environment and establish sound international financial systems. It defines electronic finance and electronic security (e-security), reviews the emerging global security industry, and develops a risk management framework regarding tradeoffs and risks inherent in using an open network infrastructure (including examples with respect to technological innovations, privacy, quality of service, and security in the design of an e-security policy framework). It also outlines key issues regarding the legal, regulatory, and enforcement framework; external and internal monitoring of e-security practices; public-private sector co-operation; and the business case for practicing layered e-security. Gifted Adolescents Part of Prufrock Press' Practical Strategies Series in Gifted Education, "Gifted Adolescents" focuses on talent development in adolescence, critical issues facing adolescents, and implications for educational practice and parenting. The series offers 25 timesaving books on critical topics for educating gifted learners. Filled with practical information and advice, these books are ideal for classroom teachers, preservice teachers, and graduate students. In preparing this series, the authors have kept the busy classroom teacher in mind. The result is a timesaving introduction to the most important issues in gifted education. Spinoff 2007 Office of Aerospace Technology Spinoff is NASA's annual premiere publication featuring successfully commercialized NASA technology. For more than 40 years, the NASA Commercial Technology Program has facilitated the transfer of NASA technology to the private sector, benefitting global competition and the economy. The resulting commercialization has contributed to the development of commercial products and services in the fields of health and medicine, industry, consumer goods, transportation, public health, computer technology, and environmental resources. Since 1976, Spinoff has featured between 40 and 50 of these commercial products annually. New Directions An Integrated Approach to Reading, Writing, and Critical Thinking The interactive approach in this text prepares ESL students for university level courses. 88 Instruments Knopf Books for Young Readers "The rhythmic, onomatopoeic text dances across exuberant watercolors with lots of movement. This celebration of a child's agency in choosing a means of artistic expression strikes just the right note." --Kirkus "A delightful offering for reading aloud, especially during music-themed storytimes." --School Library Journal From New York Times bestselling author Chris Barton and new illustrator Louis Thomas comes a fun, rhythmic picture book about finding the music that is perfect for you! A boy who loves to make noise gets to pick only one instrument (at his parents urging) in a music store, but there is too much to choose from! There's triangles and sousaphones! There's guitars and harpsichords! Bagpipes and cellos and trombones! How can he find the one that is just right for him out of all those options? From Fishing Hamlet to Red Planet India's Space Journey Harper Collins On 21 November 1963, the first rocket took off from Thumba, a fishing hamlet near

Thiruvananthapuram, announcing the birth of India's space programme. The rocket, the payload, the radar, the computer, the helicopter - all that was required for the launch - came from outside the country. Fifty years later, on 5 November 2013, when ISRO launched its Mars Orbiter Mission (MOM) from the Satish Dhawan Space Centre, Sriharikota, all of it had been indigenously manufactured. Ten months after the launch, on 24 September 2014, India became the first country in the world to put a satellite around the Red Planet in the very first attempt. From Fishing Hamlet to Red Planet tracks this stupendous journey through articles, interviews and reminiscences with contributions from intellectual giants like Dr Vikram Sarabhai, Satish Dhawan, M.S. Swaminathan, Jacques Blamont, Dr A.P.J. Abdul Kalam, U.R. Rao and Dr K. Kasturirangan, among others, this is the story of India's space journey from its modest beginnings to its rendezvous with Mars. Buddhism in India Challenging Brahmanism and Caste SAGE Publications India This book is an historical survey of Buddhism in India and shows how over a period of 2500 years, Buddhism has been engaged in a struggle against caste-hierarchy. It has challenged Brahmanism, the main exploitative system of traditional Indian society, and instead endeavoured to build religious egalitarianism. The book focuses on the question of what is the 'core' element in Buddhist Dhamma, on what role it has played in the development of Indian civilization, and the changed perspective of Buddhism in a modern industrial age. The author starts with the rise of Buddhism in the middle of the second millenium BC amidst crucial cultural and social developments. The teachings of Buddha and the different forms of Buddhism have been discussed. Here the contrast between Buddhism and Brahmanism with regard to the caste system, the origin and role of state, the approach to various social groups and the position of women is well defined. The author examines the civilizational impact of Buddhism, its connections with ancient India's leading role in trade, its spread and popularity in South and Southeast Asia, its role in fostering a dynamic and open society as against the hierarchical, village-bound, caste-defined Brahmanical social system. Then came the defeat of Buddhism in India and the reassertion of Brahmanism. For centuries Buddhism retreated to what some term as its 'underground survival'. Its relationship with the syncretist Bhakti movement has been another important aspect of the book. Finally the revival of Buddhism in the nineteenth century, the dalit-based success of the religion under Ambedkar and its future in India have been studied. The author argues that Ambedkarian Buddhism can serve as a powerful force for reconstructing society in a new and challenging millenium. Serving Children and Families Through Community-University Partnerships Success Stories Springer Science & Business Media A consistently identified criticism about contemporary higher education is that academia is not playing a visible role in contributing to the improvement of the lives of people in the community - as the lives are lived on a day-to-day basis. However, there has been a long tradition of such `Outreach Scholarship' in America, and this focus is gaining renewed attention, at least in

part, because policy makers and philanthropic organizations are pressing universities and colleges to use their learning resources in ways that more directly benefit society. Universites have listened to, and continue to heed, such appeals. Serving Children and Families Through Community-University Partnerships: Success Stories illustrates such work by presenting several dozen exemplary `success stories' of community-university partnerships that serve to enhance the lives of children, youth, and families. These illustrations are drawn from collaborations across the breadth of the nation and reflect the work of many diverse colleges and universities. Moreover, these partnerships involve an array of target audiences, ranging across the individual life span from infancy through old age and involving a diverse set of groups and organizations. In addition, this work takes many forms, for example, technical assistance, evaluation, training, program design and delivery, demonstration or participatory, action research, and dissemination. The book is useful to two broad audiences: (1) Individuals, in and out of academia, in decision-making roles that directly impact what gets done or does not get done in colleges and universities; and (2) Persons outside academia who are concerned with creating positive change across a wide-range of issues pertinent to the lives of youth, families, and communities. This volume will guide universities and communities to work together to promote positive development in the diverse children, families, and communities of our nation. Organizational Communication Balancing Creativity and Constraint Bedford/St. Martin's Written by a premier author team, now including Angela Trethewey, Organizational Communication: Balancing Creativity and Constraint draws on contemporary research to provide a lively discussion of today's organizational issues (including such topics as identity, employee health, gender and cultural difference, and the work/life balance) while helping students to see how these theories and concepts are relevant in everyday life. Radar Instruction Manual Since 1958 the Maritime Administration has continuously conducted instructions in use of collision avoidance radar for qualified U.S. seafaring personnel and representatives of interested Federal and State Agencies.Beginning in 1963, to facilitate the expansion of training capabilities and at the same time to provide the most modern techniques in training methods, radar simulators were installed in Maritime Administration?s three region schools.It soon became apparent that to properly instruct the trainees, even with the advanced equipment, a standardize up-to-date instruction manual was needed. The first manual was later revised to serve both as a classroom textbook and as an onboard reference handbook.This newly updated manual, the fourth revision, in keeping with Maritime Administration policy, has been restructured to include improved and more effective methods of plotting techniques for use in Ocean, Great Lakes, Coastwise and Inland Waters navigation.Robert J. BlackwellAssistant Secretary for Maritime Affairs Passive and Active Measurement 13th International Conference, PAM 2012, Vienna, Austria, March 12-14, 2012, Proceedings Springer This book constitutes the refereed proceedings of the

13th International Conference on Passive and Active Measurement, PAM 2012, held in Vienna, Austria, in March 2012. The 25 revised full papers presented were carefully reviewed and selected from 83 submissions. The papers were arranged into eight sessions traffic evolution and analysis, large scale monitoring, evaluation methodology, malicious behavior, new measurement initiatives, reassessing tools and methods, perspectives on internet structure and services, and application protocols. NASA Conference Publication How I Met Myself Level 3 Cambridge University Press "One icy winter's evening in Budapest, a man runs straight into John Taylor as he walks home through the narrow streets. John falls over into the snow and looks up at the man's face. 'I felt very afraid. Because what I saw was me. My face looking down at me. My mouth saying sorry.' Who is the man, and how will John's life change? Portuguese-English Visual Bilingual Dictionary Dorling Kindersley Ltd Look and learn to recall a wealth of everyday vocabulary in Portuguese with this intuitive easy-to-use visual language dictionary Whether it's for business or pleasure, pick up 6,000 key Portuguese words and phrases on a range of subjects: from shopping and eating out, to sport and beyond quickly and easily. Find every word you need to know fast using the clearly labelled illustrated scenes from everyday life. Plus, find helpful features on key Portuguese nouns, verbs and phrases to improve your understanding of the language. Take it wherever your travels take you. African Media and the Digital Public Sphere Springer This book examines the claims that new information and communication technologies (ICTs) are catalysts of democratic change in Africa. It takes optimist, pragmatist-realist and pessimist stances on various political actors and institutions, from government units and political parties to civil society organizations and minority groups. Prehistoric Digital Poetry An Archaeology of Forms, 1959-1995 University of Alabama Press A singular and major historical view of the birth of electronic poetry. For the last five decades, poets have had a vibrant relationship with computers and digital technology. This book is a documentary study and analytic history of digital poetry that highlights its major practitioners and the ways that they have used technology to foster a new aesthetic. Focusing primarily on programs and experiments produced before the emergence of the World Wide Web in the mid-1990s, C. T. Funkhouser analyzes numerous landmark works of digital poetry to illustrate that the foundations of today's most advanced works are rooted in the rudimentary generative, visual, and interlinked productions of the genre's prehistoric period. Since 1959, computers have been used to produce several types of poetic output, including randomly generated writings, graphical works (static, animated, and video formats), and hypertext and hypermedia. Funkhouser demonstrates how hardware, programming, and software have been used to compose a range of new digital poetic forms. Several dozen historical examples, drawn from all of the predominant approaches to digital poetry, are discussed, highlighting the transformational and multi-faceted aspects of poetic composition now available to authors. This account includes many

works, in English and other languages, which have never before been presented in an English-language publication. In exploring pioneering works of digital poetry, Funkhouser demonstrates how technological constraints that would seemingly limit the aesthetics of poetry have instead extended and enriched poetic discourse. As a history of early digital poetry and a record of an era that has passed, this study aspires both to influence poets working today and to highlight what the future of digital poetry may hold. Modelling and Control of Mini-Flying Machines Springer Science & Business Media Modelling and Control of Mini-Flying Machines is an exposition of models developed to assist in the motion control of various types of mini-aircraft: • Planar Vertical Take-off and Landing aircraft; • helicopters; • quadrotor mini-rotorcraft; • other fixed-wing aircraft; • blimps. For each of these it propounds: • detailed models derived from Euler-Lagrange methods; • appropriate nonlinear control strategies and convergence properties; • real-time experimental comparisons of the performance of control algorithms; • review of the principal sensors, on-board electronics, real-time architecture and communications systems for mini-flying machine control, including discussion of their performance; • detailed explanation of the use of the Kalman filter to flying machine localization. To researchers and students in nonlinear control and its applications Modelling and Control of Mini-Flying Machines provides valuable insights to the application of real-time nonlinear techniques in an always challenging area. Shock, Impact and Explosion Structural Analysis and Design Springer Table F.1. Reinforcement for one and two way elements Pressure Reinforcement Two-way One-way design range elements elements Intermediate Main A =0.0025bd A =0.0025bd s s and low Other A =0.0018bd A +A =0.0020bT s s c s High Main A = A A = A s s s s =0.0025bd =0.0025bd c c Other A = A A = A s s s s a a =0.0018bd =0.0018bd c c a But not less than A /4 used in the main direction (see Fig. F.2 for coe?cients) s where A = area of compression reinforcement within the width b, d = s distancefromtheextremecompression?bretothecentroidofcompression reinforcement, a = depth of the equivalent rectangular stress block = (A ?A)f /0.85bf . s s s c The minimum area of ?exural reinforcement is given in Table F.1. Ultimate Static Shear Capacity Diagonal Tension (1) Theultimateshearstressv ,asameasureofdiagonaltension,iscomputed u for type I sections from v = V /bd (F.5) u u and for type II and III sections from v = V /bd , (F.6) u u c whereV isthetotalshearona widthbatthesectiona distanced(type I) u or d (type II and III) from the face of the support. The shear at sections c between the face of the support and the section d or d therefrom need c not be considered critical. (2) The shear stress permitted on an unreinforced web is limited to ? ? Handguns of the World Military Revolvers and Self-loaders from 1870 to 1945 The Fifth Science The Galactic Human Empire was built atop four sciences: logic, physics, psychology, and sociology. Standing on those pillars, humans spent 100,000 years spreading out into the galaxy: warring, exploring, partying -- the usual. Then there was the fifth science. And that

killed the empire stone dead. The Fifth Science is a collection of 12 stories, beginning at the start of the Galactic Human Empire and following right through to its final days. We'll see some untypical things along the way, meet some untypical folk: galactic lighthouses from the distant future, alien tombs from the distant past, murderers, emperors, archaeologists and drunks; mad mathematicians attempting to wake the universe itself up.And when humans have fallen back into savagery, when the secrets of space folding and perfect wisdom are forgotten, we'll attend the empire's deathbed, hold its hand as it goes. Unfortunately that may well only be the beginning.