

Physical Science March 2014 Question Paper For 24 03 Ekurhuleni District

While the field of science has made incredible advances in the past century, and more and more scientists have gone to great lengths to make these developments accessible to the public, we still rarely hear ministers and communities of faith discussing the implications of these developments for the life of faith. Quantum Shift explores recent developments in science from relativity to quantum mechanics to cosmology and then suggests ways in which people of faith might engage these scientific developments to foster their understanding of God and what it means to be part of the world we believe God created.

Heidi Ann Russell demonstrates how these scientific developments offer us new and exciting images that spark our theological imaginations and reinvigorate our spiritual lives. Includes Illustrations
Rapidly generating and processing large amounts of data, supercomputers are currently at the leading edge of computing technologies. Supercomputers are employed in many different fields, establishing them as an integral part of the computational sciences. Research and Applications in Global Supercomputing investigates current and emerging research in the field, as well as the application of this technology to a variety of areas. Highlighting a broad range of concepts, this publication is a comprehensive reference source for professionals, researchers, students, and practitioners interested in the various topics pertaining to supercomputing and how this technology can be applied to solve problems in a multitude of disciplines.

The Science of Armour Materials comprehensively covers the range of armor materials from steels and light alloys, through glasses and ceramics, to fibers, textiles, and protective apparel. The book also discusses aspects of analytical and numerical modeling, as well as laboratory-based high-strain rate testing and ballistic testing methodologies. Each chapter is written from an international perspective, including reviews of the current global literature, and incorporates case studies that focus upon real life applications, research outcomes, and lessons learned. The threat spectrum is restricted to small arms ammunition, high velocity fragments, and stab and spike attacks, as well as blast loadings. Features input from an editor who is an expert in his field: Dr. Ian Crouch, the author of over 80 publications in his field, with three patents to his name Provides systematic and comprehensive coverage of armor materials, modeling, and testing Offers a cross-disciplinary approach that brings together expertise in materials science and defense engineering Discusses aspects of analytical and numerical modeling, as well as laboratory-based high-strain rate testing and ballistic testing methodologies

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This book examines how the armed forces of the United States and Australia have responded to the threat posed by climate change to national security. Drawing on established securitisation frameworks ('Copenhagen' and 'Paris' Schools), the author uses a combination of quantitative and qualitative techniques to systematically examine more than 3,500 speeches, policies and doctrinal articles since 2003. Importantly, the author undertakes an examination of the intersection between the political and the military spheres, probing the question of how ideology has influenced the military's uptake on the issue. In this context, the author identifies the difficulty of an ostensibly apolitical institution responding to what has become both a hyper-political issue and an unprecedented security threat. A close examination of the key political actors – their intent, outlook and political mandate for broader climate action – is therefore crucial to understanding the policy freedom and constraints within which military leaders operate. The book consists of eight chapters divided into four parts, focusing on: perspectives and methodological insights; empirical case studies; case study comparison; and concluding observations. • Offers a rare and systematic examination of military climate policy by a military officer from Australia• Identifies a divergence of Australian military climate policy from that of the US military during the Obama Administration• Develops a unique method that quantifies climate security, enabling a graphical representation for quick and ready reference ideally suited to policy-makers

The Routledge Handbook of the Sociology of Arts and Culture offers a comprehensive overview of sociology of art and culture, focusing especially – though not exclusively – on the visual arts, literature, music, and digital culture. Extending, and critiquing, Bourdieu's influential analysis of cultural capital, the distinguished international contributors explore the extent to which cultural omnivorousness has eclipsed highbrow culture, the role of age, gender and class on cultural practices, the character of aesthetic preferences, the contemporary significance of screen culture, and the restructuring of popular culture. The Handbook critiques modes of sociological determinism in which cultural engagement is seen as the simple product of the educated middle classes. The contributions explore the critique of Eurocentrism and the global and cosmopolitan dimensions of cultural life. The book focuses particularly on bringing cutting edge 'relational' research methodologies, both qualitative and quantitative, to bear on these debates. This handbook not only describes the field, but also proposes an agenda for its development which will command major international interest.

This book describes the four Nuclear Security Summits held over 2010-2016 at the initiative of U.S. President Barack Obama. The author draws upon his unique vantage point as a participant in the Summits, exclusive interviews with practitioners, and access to primary documents, to write an engaging history of the NSS and of nuclear security in general. The story of the NSS is also in part the story of multilateral nuclear forums, which have sprung up regularly since the dawn of the nuclear age to address perceived nuclear dangers. The success of these Summits in addressing the threat of nuclear terrorism holds important lessons for the design and work of nuclear forums today and into the future. The author presents a new approach to assessing 'international learning' that has important implications for the design of multilateral forums and updates the Cold War areas of nuclear knowledge being 'learnt' in the light of the NSS experience and other recent developments. This work will be of interest to scholars and practitioners in security studies, nuclear history, and International Relations.

This book offers you a brief, but very involved look into the operations in the drilling of an oil & gas wells that will help you to be prepared for job interview at oil & gas companies. From start to finish, you'll see a general prognosis of the drilling process. If you are new to the oil & gas industry, you'll enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil & gas person, you'll enjoy reading what you may or may not know in these pages. This course provides a non-technical overview of the phases, operations and terminology used on offshore drilling platforms. It is intended also for non-drilling personnel who work in the offshore drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations, with a particular focus on the unique aspects of offshore operations.

"The field trips in this guidebook are associated with the GSA Rocky Mountain-Cordilleran Joint Section Meeting, which will take place in Bozeman, Montana, in May 2014"--

OECD's 2014 Economic Survey of the United States examines recent economic developments, policies and prospects. Special chapters cover improving well-being and making the best of new energy resources.

Given the fact that there are perhaps 400 billion stars in our Galaxy alone, and perhaps 400 billion galaxies in the Universe, it stands to reason that somewhere out there, in the 14-billion-year-old cosmos, there is or once was a civilization at least as advanced as our own. The sheer enormity of the numbers almost demands that we accept the truth of this hypothesis. Why, then, have we encountered no evidence, no messages, no artifacts of these extraterrestrials? In this second, significantly revised and expanded edition of his widely popular book, Webb discusses in detail the (for now!) 75 most cogent and intriguing solutions to Fermi's famous paradox: If the numbers strongly point to the existence of extraterrestrial civilizations, why have we found no evidence of them? Reviews from the first edition: "Amidst the plethora of books that treat the possibility of extraterrestrial intelligence, this one by Webb ... is outstanding. ... Each solution is presented in a very logical, interesting, thorough manner with accompanying explanations and notes that the intelligent layperson can understand. Webb digs into the issues ... by considering a very broad set of in-depth solutions that he addresses through an interesting and challenging mode of presentation that stretches the mind. ... An excellent book for anyone who has ever asked 'Are we alone?'" (W. E. Howard III, Choice, March, 2003) "Fifty ideas are presented ... that reveal a clearly reasoned examination of what is known as 'The Fermi Paradox'. ... For anyone who enjoys a good detective story, or using their thinking faculties and stretching the imagination to the limits ... 'Where is everybody' will be enormously informative and entertaining. ... Read this book, and whatever your views are about life elsewhere in the Universe, your appreciation for how special life is here on Earth will be enhanced! A worthy addition to any personal library." (Philip Bridle, BBC Radio, March, 2003) Since gaining a BSc in physics from the University of Bristol and a PhD in theoretical physics from the University of Manchester, Stephen Webb has worked in a variety of universities in the UK. He is a regular contributor to the Yearbook of Astronomy series and has published an undergraduate textbook on distance determination in astronomy and cosmology as well as several popular science books. His interest in the Fermi paradox combines lifelong interests in both science and science fiction.

Modern environmental regulation and its complex intersection with international law has led many jurisdictions to develop environmental courts or tribunals. Strikingly, the list of jurisdictions that have chosen to do this include numerous developing countries, including Bangladesh, Kenya and Malawi. Indeed, it seems that developing nations have taken the task of capacity-building in environmental law more seriously than many developed nations. Environmental Justice in India explores the genesis, operation and effectiveness of the Indian National Green Tribunal (NGT). The book has four key objectives. First, to examine the importance of access to justice in environmental matters promoting sustainability and good governance Second, to provide an analytical and critical account of the judicial structures that offer access to environmental justice in India. Third, to analyse the establishment, working practice and effectiveness of the NGT in advancing a distinctively Indian green jurisprudence. Finally, to present and review the success and external challenges faced and overcome by the NGT resulting in growing usage and public respect for the NGT's commitment to environmental protection and the welfare of the most affected people. Providing an informative analysis of a growing judicial development in India, this book will be of great interest to students and scholars of environmental justice, environmental law, development studies and sustainable development.

New astronomical facilities, such as the under-construction Large Synoptic Survey Telescope and planned 30-meter-class telescopes, and new instrumentation on existing optical and infrared (OIR) telescopes, hold the promise of groundbreaking research and discovery. How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants? Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council (NRC) decadal surveys, New Worlds, New Horizons for Astronomy and Astrophysics and Vision and Voyages for Planetary Sciences in the Decade 2013-2022, as well as other NRC reports. This report describes a vision for a U.S. OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community, an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities, and near-term critical coordination, planning, and instrumentation needed to usher in the era of LSST and giant telescopes.

Running can encompass the absolute extremes of human performance, from speed to endurance. Running Science uncovers the fundamental science that underpins this ubiquitous sport, bringing together the study of biomechanics, nutrition, psychology, health and injury prevention, and the technical development of shoes and running surfaces: it's a complete reference. Presents various challenges faced by security policy makers and risk analysts, and mathematical approaches that inform homeland security policy development and decision support Compiled by a group of highly qualified editors, this book provides a clear connection between risk science and homeland security policy making and includes top-notch contributions that uniquely highlight the role of risk analysis for informing homeland security policy decisions. Featuring discussions on various challenges faced in homeland security risk analysis, the book seamlessly divides the subject of risk analysis for homeland security into manageable chapters, which are organized by the concept of risk-informed decisions, methodology for applying risk analysis, and relevant examples and case studies. Applied Risk Analysis for Guiding Homeland Security Policy and Decisions offers an enlightening overview of risk analysis methods for homeland security. For instance, it presents readers with an exploration of radiological and nuclear risk assessment, along with analysis of uncertainties in radiological and nuclear pathways. It covers the advances in risk analysis for border security, as well as for cyber security. Other topics covered include: strengthening points of entry; systems modeling for rapid containment and casualty mitigation; and disaster preparedness and critical infrastructure resilience. Highlights how risk analysis helps in the decision-making process for homeland security policy Presents specific examples that detail how various risk analysis methods provide decision support for homeland security policy makers and risk analysts Describes numerous case studies from academic, government, and industrial perspectives that apply risk analysis methods for addressing challenges within the U.S. Department of Homeland Security (DHS) Offers detailed information regarding each of the five DHS missions: prevent terrorism and enhance security; secure and manage our borders; enforce and administer our immigration laws; safeguard and secure cyberspace; and strengthen national preparedness and resilience Discusses the various approaches and challenges faced in homeland risk analysis and identifies improvements and methodological advances that influenced DHS to adopt an increasingly risk-informed basis for decision-making Written by top educators and professionals who clearly illustrate the link between risk science and homeland security policy making Applied Risk Analysis for Guiding Homeland Security Policy and Decisions is an excellent textbook and/or supplement for upper-undergraduate and graduate-level courses related to homeland security risk analysis. It will also be an extremely beneficial resource and reference for homeland security policy analysts, risk analysts, and policymakers from private and public sectors, as well as researchers, academics, and practitioners who utilize security risk analysis methods.

Making a fresh contribution to the political history of science, this book explores the connections between the science policies of three countries that each experienced considerable political upheaval in the twentieth century: Spain, Italy and Argentina. By focussing on these three countries, the contributors are able to present case studies that highlight the characteristics and specificities of the democratic and dictatorial political processes involved in the production of science and technology. The focus on dictatorship presents the opportunity to expand our knowledge -beyond the more extensive literature about science in Nazi Germany and Stalinist USSR -about the level of political involvement of scientists in non-democratic contexts and to what extent they act as politicians in different contexts. Key topics covered include the new forms of organization and institutionalization of science in the twentieth century; the involvement of scientific communities in the governance of science and its institutions; the role of ideology in scientific development; the scientific practices adopted by scientific communities in different contexts; and the characteristics of science and technology produced in these contexts.

According to the United Nations, 9.6 billion people will inhabit our planet by 2050. Population growth and movement will have an enormous impact on global dynamics in the twenty-first century, in both the developing world as well as in advanced industrialized societies. In light of this global demographic reality, this issue of the Georgetown Journal of International Affairs focuses on the topic of "Destabilizing Demographics," exploring the opportunities and challenges presented by dynamic population patterns and structures. Demographic shifts affect multiple facets of international affairs, impacting economies, modifying politics, and reshaping the fabric of our societies. These changes could have catastrophic international consequences if ignored or evaded. However, as this issue's Forum demonstrates, the future holds promise for those who choose to reorganize on the cusp of significant population transformation. Adaptation as a form of mitigation must be informed by diverse solutions and multi-sectoral cooperation. Consider, for example, the intersection of family planning and climate change, or the connection between gender gaps and crime. Through pragmatic policymaking and international collaboration, seismic demographic change may not necessitate disaster. We round out this issue with articles regarding decidedly twenty-first century concerns: communication, integration, and globalization. Moha Ennaji describes the challenges of Berber language incorporation in Morocco and its significance to democratic reform. Dan Saxon examines the role of human judgment in semi-autonomous weapons use, questioning the ethics of unmanned machines. Andrés Monroy-Hernández and Luis Daniel Palacios analyze the utility, efficacy, and implications of citizen journalism within Mexico's ongoing drug war. And Lawrence Gostin and Alexandra Phelan explore how, in an increasingly interconnected world, the international community can collectively prevent and control the spread of infectious diseases. The Georgetown Journal of International Affairs is the official publication of the Edmund A. Walsh School of Foreign Service at Georgetown University. Each issue of the journal provides readers with a diverse array of timely, peer-reviewed content penned by top policymakers, business leaders, and academic luminaries. The Journal takes a holistic approach to international affairs and features a 'Forum' that offers focused analysis on a specific key issue with each new edition of the publication, as well as nine regular sections: Books, Business & Economics, Conflict & Security, Culture & Society, Law & Ethics, A Look Back, Politics & Diplomacy, Science & Technology, and View from the Ground.

Introduction to Homeland Security: Principles of All-Hazards Risk Management, Fifth Edition, provides users with a substantially updated version of previous versions, clearly delineating the bedrock principles of preparing for, mitigating, managing, and recovering from emergencies and disasters, while also offering a balanced account of all aspects of homeland security. This new edition features coverage of the Boston Marathon bombing, analysis of the NIST Cybersecurity Framework for critical infrastructure protection, and examines the DHS "Blue Campaign to stop human trafficking. To provide added perspective, this edition features additional "another voice sections and examines the emergence of social media as a tool for reporting on homeland security issues. Provides users with a comprehensive understanding of the bedrock principles of preparing for, mitigating, managing, and recovering from emergencies and disasters Features coverage of the Boston Marathon bombing and analysis of the NIST Cybersecurity Framework for critical infrastructure protection Examines the emergence of social media as a tool for reporting on homeland security issues

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The 2009 United Nations climate conference in Copenhagen is often represented as a watershed in global climate politics, when the diplomatic efforts to negotiate a successor agreement to the Kyoto Protocol failed and was replaced by a fragmented and decentralized climate governance order. In the post-Copenhagen landscape the top-down universal approach to climate governance has gradually given way to a more complex, hybrid and dispersed political landscape involving multiple actors, arenas and sites. The Handbook contains contributions from more than 50 internationally leading scholars and explores the latest trends and theoretical developments of the climate governance scholarship.

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Hypothetical Spacecraft and Interstellar Travel collects information about the latest and greatest hypothetical spacecraft.

This book constitutes the thoroughly refereed proceedings of the 11th International Conference on Collaborative Computing: Networking, Applications, and Worksharing, CollaborateCom 2015, held in Wuhan, China, in November 2015. The 24 full papers and 8 short papers presented were carefully reviewed and selected from numerous submissions. They address topics

around networking, technology and systems, including but not limited to collaborative cloud computing, architecture and evaluation, collaborative applications, sensors and Internet of Things (IoT), security.

This book discusses renewable energy policy in oil and gas-wealthy Arab states and presents the reader with a well-informed overview of the national energy systems – both conventional and renewable. It also seeks to answer questions on the poor growth prospects by contextualizing the various national renewable energy production efforts in the other energy sectors, national and international power politics and energy markets. With a focus on the UAE and Algeria – who were both vocal in their promotion of renewable energies for domestic and export-oriented power production – these two cases studies are highlighted with common features both in terms of policies and energy systems and showing the vast differences between the governance contexts of the lower Gulf and of North Africa. Both country case studies also feature sections on the most visible renewable energy project connected to the country – the UAE's Masdar project and Algeria's energy efforts and relation to the trans-Mediterranean renewable energy efforts around the Desertec project. Building on original research in both countries and over 90 interviews with senior stakeholders in half a dozen states, this book seeks to contribute to both Middle Eastern and (renewable) energy policy studies. In combination with the transition management approach as innovation theory model this book covers a timely and important topic with a wide-ranging audience, both geographically and in terms of scientific background.

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This book is intended for anyone who is interested in a real physical image and order of the physical world surrounding us. In this book Einstein's destruction of physics is documented. The physical reality of gravity, inertial forces, mass, time, double-slit experiment is debunked. It shows that Quarks and Higgs bosons do not exist and that all elementary particles, all rigid matter and all force fields in the Universe are created from compression of ether. It shows that Einstein, after 1916 became a more enthusiastic advocate of the proven existence of the ether than supporters of the ether before 1905. The aim of this book is to return physics from its way of metaphysics in the 20th century on the way of the physical reality in the 21st century. This second edition of this book was augmented by twenty pages compared to its first edition. After this augmentation it appears that the argumentation about the unacceptability of the ill-founded physical theories of the 20th century represents a compact corpus.

This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age-old enigmas of existence. Over 300 years ago, the human mind discovered the machine code of reality: mathematics. By utilizing abstract thought systems, humans began to decode the workings of the cosmos. From this understanding, the current scientific paradigm emerged, ultimately discovering the gift of technology. Today, however, our island of knowledge is surrounded by ever longer shores of ignorance. Science appears to have hit a dead end when confronted with the nature of reality and consciousness. In this fascinating and accessible volume, James Glattfelder explores a radical paradigm shift uncovering the ontology of reality. It is found to be information-theoretic and participatory, yielding a computational and programmable universe.

International Science Congress Association organized 3rd International Science Congress (ISC-2013), with "Innovation with Global Responsibility" as its Focal Theme. ISC-2013 is divided in 20 sections. A total number of 900 Research Papers and 1000 registrations from 36 countries all over the world have been received. They are mainly from India, Iran, Sudan, Iraq, South Africa, Phillipines, Pakistan, Nighana, Erode, Czech Republic, Bangladesh, Swaziland, Jordan, USA, Thailand, Japan, Malaysia, Kazakhstan, UK, Colombia, Nepal, Italy, Bulgariya, Cameroun, France, Greece, Kazakhstan, Korea, Lithuania, Nigeria, Poland, Romania, Slovakiya, Ukraine, Venezuela and Turkey.

CHOICE OUTSTANDING ACADEMIC TITLE 2015 Many of us think of European countries as discreet entities—their own languages, cultures, food, and economies squarely contained within their national boundaries. But in fact Europe is at once a unified place and a sophisticatedly fragmented one, and national boundaries rarely reflect its social and economic realities. The social atlas of Europe is the first atlas to map Europe according to these realities, from the perspective of human geography rather than simply a political one. Using innovative full-color visualization methods, it reconsiders European identity through its many different facets: economy, culture, history, and human and physical geography, visualizing Europe and its people in a more fluid way, in some cases using maps without artificial national boundaries. It utilizes the latest available demographic, social, and economic data through state-of-the-art geographical information systems and new cartography techniques. Through these new visualizations, this highly illustrated book offers fresh perspectives on a range of topics, including social values, culture, education, employment, environmental footprints, health and well-being, and social inequalities and cohesion. It is a bold rethinking of Europe as we know it and will be of interest to anyone who wants to understand the continent in its truest form.

Petroleum Waste Treatment and Pollution Control combines state-of-the-art and traditional treatment and control methods for removing, controlling, and treating problems, such as groundwater contamination, aromatics, oil, grease, organic removal, and VOCs. The book is divided into seven chapters, with the first briefly introducing readers to the petroleum industry. The second and third chapters explain wastes in the petroleum industry and focus on its environmental impact, its regulations, and protection options. Chapters four, five, and six discuss the treatment of air emissions, oily wastewater, solid wastes, and disposal methods.. The final chapter provides remediation processes. Presents the latest methods for treating, controlling, and eliminating pollutants from air, water, and land that are a byproduct of petroleum industry operations Covers the

environmental impact of the petroleum industry and its regulations, explaining protection options Includes treatment methods for both air, water, and solid waste disposal Discusses remediation processes, including natural processes, pump and treat, soil flushing, soil vapor extraction (SVE), bioremediation, and excavation

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The authors examine how far internal policies in the European Union move towards the objective of reducing greenhouse gas emissions in the EU by 80-95 per cent by 2050, and how or whether the EU's 2050 objective to 'decarbonise' could affect the EU's relations with a number of external energy partners.

South Asia has developed from a group of newly independent post-Colonial states of at most secondary importance to the wider world to its current position as a region of central strategic importance to both global economic development and world peace and stability. This Atlas highlights the global significance of South Asia in relation to economic, geopolitical and strategic interests. It provides a coherent descriptive and analytical account of the key elements of the complex societies that make up the region and its component countries. Illustrated with more than 100 original maps and offering concise entries on key issues, the book is structured thematically in these sections: Global Context Geographical Environments Historical Evolution of South Asia Key Issues in modern South Asia Economy and Security Designed for use in teaching undergraduate and graduate classes and seminars in geography, history, economics, anthropology, international relations, political science and the environment as well as regional courses on the South Asia, this book is also a comprehensive reference source for libraries and decision makers focusing on South Asia.

The global food system is characterized by large numbers of people experiencing food insecurity and hunger on the one hand, and vast amounts of food waste and overconsumption on the other. This book brings together experiences from different countries addressing the challenges associated with food security. Seen through various disciplinary lenses the different cases included are countries at various stages of food security, with diverse stories of success as well as failures in their efforts. China, Brazil and India, as well as less developed countries in Africa and Asia, such as Malawi, Ethiopia, Tanzania, Myanmar, Bangladesh and the Philippines. The authors pay special attention to the environmental and socio-economic challenges in the respective chapters and how they contribute to food insecurity. Each of the case studies identifies and analyzes which factors or drivers (environmental, economic, policy, technology, markets) have been the most powerful shapers of the food system and their future impact. The case studies identify interventions at regional, national and local level that contribute positively to food security, highlighting solutions that are effective and easy to implement for all levels of decision makers, from farmers to policy makers. Overall, the book provides insights in order to foster a greater understanding of the issues surrounding food security and support progress towards the goal of a sustainable food system for all.

This is the first human geography social atlas of Europe to consider the European economy, culture, history and human and physical geography as a single land mass and a more unified European people. It provides an accessible overview of Europe and a human geography contribution to debates about a wide range of topics.

Drawing on first hand interview data with experts and government officials, Olivia Gippner develops a new analytical framework to explore the vested interests and policy debates surrounding Chinese climate policy-making.

Practical Sports Coaching is a thorough and engaging guide for all sports coaching students and practitioners. Drawing on real-life case studies and examples, the book is designed to develop practical coaching skills and provides readers with the methods and tools they need to become an expert coach. Structured around all facets of the coaching process, the text comprehensively covers topics such as: preparation for coaching mentoring the philosophy of coaching direct intervention coaching methods the use of modern technology. The book's practical approach allows the reader to consider common challenges faced by coaches, suggesting solutions to performance concerns and preparing students for the realities of professional sports coaching. A companion website containing presentation slides and useful weblinks makes the book a complete resource for students and lecturers alike. Practical Sports Coaching helps to bridge the gap between theory and practical coaching skills, and is an essential text for coaching students looking to deepen their understanding of sports coaching and experienced coaches developing their own practical skills.

This book examines the lives and contributions of American women physicists who were active in the years following World War II, during the middle decades of the 20th century. It covers the

strategies they used to survive and thrive in a time where their gender was against them. The percentage of PhD's in physics has risen from 6% in 1983 to 20% in 2012 (an all-time high for women). By understanding the history of women in physics, these gains can continue. It discusses two major classes of women physicists; those who worked on military projects, and those who worked in industrial laboratories and at universities largely in the late 1940s and 1950s. While it includes minimal discussion of physics and physicists in the 1960s and later, this book focuses on the challenges and successes of women physicists in the years immediately following World War II and before the eras of affirmative actions and the use of the personal computer.

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