

2014 Physical Science June Paper

This multidisciplinary book draws on sociology, cultural studies, anthropology and history, to explore the diversity, challenges and achievements of Latin American women in sport. It offers an in-depth analysis of women's sport in ten countries across Latin America, insights into the sport activities of indigenous peoples, and the contributions of Latin American women to sport living outside of the region. The book also provides a comprehensive overview of international developments in gender and sport research, policy development and theory, and addresses sport participation at many levels including in school-based physical education, community and high performance contexts.

The Handbook constitutes a global resource for the fast growing interdisciplinary research and policy communities addressing the challenge of driving innovation towards socially desirable outcomes. This book brings together well-known authors from the US, Europe and Asia who develop conceptual and regional perspectives on responsible innovation as well as exploring the prospects for further implementation of responsible innovation in emerging technological practices ranging from agriculture and medicine, to nanotechnology and robotics. The emphasis is on the socio-economic and normative dimensions of innovation including issues of social risk and sustainability.

The book expands and formalizes the conceptual foundations of Climate-Smart Agriculture, drawing upon theory and concepts from agricultural development, institutional and resource economics. The book uses economic lens to identify the main features of CSA, its likely impact, and the challenges associated with its implementation. It is a product of the EPIC team in the ESA division and contributes to SO2 OO2. Climate Smart Agriculture (CSA) is a concept that calls for integration of the need for adaptation and the possibility of mitigation in agricultural growth strategies to support food security. Several countries around the world have expressed intent to adopt CSA approach to managing their agricultural sectors. However there is considerable confusion about what the CSA concept and approach actually involve, and wide variation in how the term is used. It is critical to build a more formal basis for the CSA concept and methodology and at the same time providing illustrations of how the concept can be applied across a range of conditions.

The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 272 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

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The G20 needs to be bold and pragmatic if it is to deal effectively with the global economy's big issues. Since its establishment in 1999, the G20 has become a key international forum. But it suffers from inherent design flaws and remains a work in progress. When Australia began its presidency of the 2014 summit in Brisbane, many commentators suggested that Australia's chairing of the G20 would reinvigorate it. This timely book looks at what was achieved at the Brisbane Summit and what has happened in its wake. Crucially, it explores what role the G20 could and should play in dealing with such pressing global issues as international taxation, trade, energy and climate change. Expert contributors, many of them former inside players, assess the impact of the summit in the context of the year's broader geopolitical challenges, including Russia's temporary expulsion from the G8 and the failure of the US to ratify its governance reforms to the IMF. Taking stock, contributors question the effectiveness of the G20, and identify the reforms that are needed if it is to offer strong leadership in an integrated global economy. Together they ask, what is the future of the G20 and other 'Gs'?

Climate change is the most significant moral and environmental issue of our time. This project seeks to help deepen explicit ethical reflection around the world on national responses to climate change by developing a publicly available record on national compliance with ethical obligations for climate change similar to the reports that are now available on national compliance with human rights obligations.

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This book provides an interdisciplinary and comprehensible introduction to bioeconomy. It thus provides basic knowledge for understanding a transformation process that will shape the 21st century and requires the integration of many disciplines and industries that have had little to do with each other up to now. We are talking about the gradual and necessary transition from the age of fossil fuels, which began around 200 years ago, to a global economy based on renewable raw materials (and renewable energies). The success of this transition is key to coping with the challenge of climate change. This book conceives the realization of bioeconomy as a threefold task – a scientific, an economic and an ecological one. · Where does the biomass come from that we need primarily for feeding the growing world population but also for future energy and material use? How can it be processed in biorefineries and what role does biotechnology play in this regard? · Which aspects of innovation economics need to be considered, which economic aspects of value creation, competitiveness and customer acceptance are important? · What conditions must a bioeconomy fulfil in order to enable a sustainable development of life on earth? May it be regarded as a key to further economic growth or shouldn't it rather orient itself towards the ideal of sufficiency? By dealing with these questions from the not necessarily consistent perspectives of proven experts, this book provides an interdisciplinary overview of a dynamic field of research and practice that raises more questions than answers and thus may nurture the motivation of many more people to seriously engage for the realization of a bioeconomy.

The 21st Century Truck Partnership (21CTP) works to reduce fuel consumption and emissions, increase heavy-duty vehicle safety, and support research, development, and demonstration to initiate commercially viable products and systems. This report is the third in a series of three by the National Academies of Sciences, Engineering, and Medicine that have reviewed the research and development initiatives carried out by the 21CTP. Review of the 21st Century Truck Partnership, Third Report builds on the Phase 1 and 2 reviews and reports, and also comments on changes and progress since the Phase 2 report was issued in 2012. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 273 questions and answers for job interview and as a BONUS 230 links to video movies. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

This book discusses the paradigm of quantum ontology as an appropriate model for measuring cognitive processes. It clearly shows the inadequacy of the application of classical probability theory in modelling the human cognitive domain. The chapters investigate the context dependence and neuronal basis of cognition in a coherent manner. According to this framework, epistemological issues related to decision making and state of mind are seen to be similar to issues related to equanimity and neutral mind, as discussed in Buddhist perspective. The author states that quantum ontology as a modelling tool will help scientists create new methodologies of modelling in other streams of science as well.

This volume contains the proceedings of 24 peer-reviewed papers presented at the 3rd International Gravity Field Service (IGFS) General Assembly, which was organized by the International Gravity Field Service (IGFS), Commission 2 of the International Association of Geodesy (IAG), and Shanghai Astronomical Observatory (SHAO), Chinese Academy of Sciences. The Assembly was successfully held in Shanghai, China from June 30th to July 6th, 2014 with over 130 participants from 25 countries. The focus of the Assembly is on methods for observing, estimating and interpreting the Earth gravity field as well as its applications, including 6 sessions: gravimetry and gravity networks, global geopotential models and vertical datum unification, local geoid/gravity modelling, satellite gravimetry, mass movements in the Earth system and solid Earth investigations.

Science and Faith Can—and Do—Support Each Other Science and Christianity are often presented as opposites, when in fact the order of the universe and the complexity of life powerfully testify to intelligent design. With this comprehensive resource that includes the latest research, you'll witness how the findings of scientists provide compelling reasons to acknowledge the mind and presence of a creator. Featuring more than 45 entries by top-caliber experts, you'll better understand... how scientific concepts like intelligent design are supported by evidence the scientific findings that support the history and accounts found in the Bible the biases that lead to scientific information being presented as a challenge—rather than a complement—to Christianity Whether you're looking for answers to your own questions or seeking to explain the case for intelligent design to others, The Comprehensive

Guide to Science and Faith is an invaluable apologetic tool that will help you explore and analyze the relevant facts, research, and theories in light of biblical truth.

Strategic Sustainability examines how organizations can implement environmental sustainability science, theories, and ways of thinking to become more competitive. Including examples and ideas implemented in various countries, it is based on known scientific principles about the natural world and organizational principles focusing on the work domain. The intersection of these two realms of research creates a powerful and new approach to comprehensive, seemingly contradictory issues. Daniel S. Fogel draws from disparate fields and creates a story about organizations, their future and how people are part of the problem and, more importantly, part of the solution. Readers will find ways to take action to improve organizations and avoid denigrating our natural environment, learning to be mindful of the urgency we should feel to improve our impact on the world. The focus on the natural environment provides a powerful focus for creating value in organizations and addressing the major challenges we all face.

Advanced sustainability students, working professionals and board members, managers and legislators responsible for governing organizations or implementing public policy will find this book useful. A companion website features an instructor's manual with test questions, as well as 38, 10-minute videos for classroom use.

Climate change presents one of the greatest challenges of our time, and has become one of the defining issues of the twenty-first century. The radical changes which both developed and developing countries will need to make, in economic and in legal terms, to respond to climate change are unprecedented. International law, including treaty regimes, institutions, and customary international law, needs to address the myriad challenges and consequences of climate change, including variations in the weather patterns, sea level rise, and the resulting migration of peoples. The Oxford Handbook of International Climate Change Law provides an unprecedented and authoritative overview of all aspects of international climate change law as it currently stands, with guidance for how it should develop in the future. Over forty leading scholars and practitioners set out a comprehensive understanding of the legal issues that surround this vitally important but still emerging area of international law. This book addresses the major legal dimensions of the problems caused by climate change: not only in the content and nature of the international legal frameworks, which need implementation at the national level, but also the development of carbon trading systems as a means of reducing the costs of meeting emission reduction targets. After an introduction to the field, the Handbook assesses the relevant institutions, the key applicable principles of international law, the international mitigation regime and its consequences, and climate change litigation, before providing perspectives focused upon specific countries or regions. The Handbook will be an invaluable resource for scholars, students, and practitioners of international climate change law. It provides readers with diverse perspectives, bringing together interpretations from different disciplines, countries, and cultures.

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Electricity, supplied reliably and affordably, is foundational to the U.S. economy and is utterly indispensable to modern society. However, emissions resulting from many forms of electricity generation create environmental risks that could have significant negative economic, security, and human health consequences. Large-scale installation of cleaner power generation has been generally hampered because greener technologies are more expensive than the technologies that currently produce most of our power. Rather than trade affordability and reliability for low emissions, is there a way to balance all three? The Power of Change: Innovation for Development and Deployment of Increasingly Clean Energy Technologies considers how to speed up innovations that would dramatically improve the performance and lower the cost of currently available technologies while also developing new advanced cleaner energy technologies. According to this report, there is an opportunity for the United States to continue to lead in the pursuit of increasingly clean, more efficient electricity through innovation in advanced technologies. The Power of Change: Innovation for Development and Deployment of Increasingly Clean Energy Technologies makes the case that America's advantages—world-class universities and national laboratories, a vibrant private sector, and innovative states, cities, and regions that are free to experiment with a variety of public policy approaches—position the United States to create and lead a new clean energy revolution. This study focuses on five paths to accelerate the market adoption of increasing clean energy and efficiency technologies: (1) expanding the portfolio of cleaner energy technology options; (2) leveraging the advantages of energy efficiency; (3) facilitating the development of increasing clean technologies, including renewables, nuclear, and cleaner fossil; (4) improving the existing technologies, systems, and infrastructure; and (5) leveling the playing field for cleaner energy technologies. The Power of Change: Innovation for Development and Deployment of Increasingly Clean Energy Technologies is a call for leadership to transform the United States energy sector in order to both mitigate the risks of greenhouse gas and other pollutants and to spur future economic growth. This study's focus on science, technology, and economic policy makes it a valuable resource to guide support that produces innovation to meet energy challenges now and for the future.

Decision-makers at all levels are being confronted with novel complexities and uncertainties and face long-term challenges which require foresight about long-term future prospects, assumptions, and strategies. This book explores how foresight studies can be systematically undertaken and used in this context. It explicates why and how methods like horizon scanning, scenario planning, and roadmapping should be applied when dealing with high levels of uncertainty. The scope of the book moves beyond “narrow” technology foresight, towards addressing systemic interrelations between social, technological, economic, environmental, and political systems. Applications of foresight tools to such fields as energy, cities, health, transportation, education, and sustainability are considered as well as enabling technologies including nano-, bio-, and information technologies and cognitive sciences. The

approaches will be illustrated with specific actual cases.

Imad Moosa's thought-provoking book explores the contemporary doctrine that plagues the academic sphere: the principle of publish or perish. This book identifies the pressures placed upon academics to either publish their work regularly, or suffer the consequences, including lack of promotion, or even redundancy.

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Ethics and climate changeA study of national commitmentsIUCN

The standard incandescent light bulb, which still works mainly as Thomas Edison invented it, converts more than 90% of the consumed electricity into heat. Given the availability of newer lighting technologies that convert a greater percentage of electricity into useful light, there is potential to decrease the amount of energy used for lighting in both commercial and residential applications. Although technologies such as compact fluorescent lamps (CFLs) have emerged in the past few decades and will help achieve the goal of increased energy efficiency, solid-state lighting (SSL) stands to play a large role in dramatically decreasing U.S. energy consumption for lighting. Since the publication of the 2013 National Research Council report Assessment of Advanced Solid-State Lighting, the penetration of SSL has increased dramatically, with a resulting savings in energy and costs that were foreshadowed by that study. What was not anticipated then is the dramatic dislocation and restructuring of the SSL marketplace, as cost reductions for light-emitting diode (LED) components reduced profitability for LED manufacturers. At the same time, there has been the emergence of new applications for SSL, which have the potential to create new markets and commercial opportunities for the SSL industry. Assessment of Solid-State Lighting, Phase Two discusses these aspects of change—highlighting the progress of commercialization and acceptance of SSL and reviewing the technical advances and challenges in achieving higher efficacy for LEDs and organic light-emitting diodes. This report will also discuss the recent trends in SSL manufacturing and opportunities for new applications and describe the role played by the Department of Energy (DOE) Lighting Program in the development of SSL.

It is clear that more sustainable and efficient use of fresh water resources will become crucial in future global water management to avoid major threats to biological life. Trade in Water Under International Law offers a careful and well-reasoned introduction and analysis of this emerging and largely unchartered subject of international trade law, which has hitherto been of key importance in domestic law and policy, exploring the potential and limits of addressing the use of water resources in the context of World Trade

Organization law.

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This book serves as a platform for educators and researchers to unite educational technology and social justice. While educational technology is a rapidly changing and progressive field of research and practice, it remains largely separate from education for social justice. Current literature about educational technology is often approached from a technical, how-to perspective that emphasizes ways to implement technology into the classroom. Technology is often viewed as inevitable, yet neutral and value-free. Educational technology, however, is anything but neutral. The contributors collectively advance a hopeful discourse by exploring the potential of technology as a vehicle to transform and emancipate, while not forgoing a critically reflective measure of self-conscious critique of our own role as educators, students, or scholars in oppressive silences, constraints and conditions. This edited collection makes an important and unique contribution to the field, as it will be the first published volume to detail research, theory, and practice regarding student use of technology in achieving liberatory aims since IAP's 2009 publication, *ICT for Education, Development and Social Justice*. The fields of educational technology and social justice are vast and applicable in many domains, including teacher education, graduate programs, and K-12 education. This work is intended to appeal to a diverse academic and professional audience of K-12 teachers, teacher educators, educational technology and social justice scholars, and policy makers. Scholars and academics instructing graduate-level educational technology courses can reference this edited collection as the most current text on socially just educational technology. Educational practitioners from teacher education programs and the K-12 sector may use this book as a source of ideas and inspiration to incorporate student use of technology toward emancipatory aims. This title could be adopted as a course text for both undergraduate and graduate education courses in: media literacy, digital literacy, distance education, education for social justice, and teacher preparation, and educational technology courses. Readers will also be able to use the book as a guide when critically analyzing their own professional practice, whether it is in research, working with K-12 students, or preparing future educators or scholars.

Why does knowing more mean believing—and doing—less? A prescription for change The more facts that pile up about global warming, the greater the resistance to them grows, making it harder to enact measures to reduce greenhouse gas emissions and prepare communities for the inevitable change ahead. It is a catch-22 that starts, says psychologist and economist Per Espen Stoknes, from an inadequate understanding of the way most humans think, act, and live in the world around them. With dozens of examples—from the private sector to government agencies—Stoknes shows how to retell the story of climate change and, at the

same time, create positive, meaningful actions that can be supported even by deniers. In *What We Think About When We Try Not To Think About Global Warming*, Stoknes not only masterfully identifies the five main psychological barriers to climate action, but addresses them with five strategies for how to talk about global warming in a way that creates action and solutions, not further inaction and despair. These strategies work with, rather than against, human nature. They are social, positive, and simple—making climate-friendly behaviors easy and convenient. They are also story-based, to help add meaning and create community, and include the use of signals, or indicators, to gauge feedback and be constantly responsive. Whether you are working on the front lines of the climate issue, immersed in the science, trying to make policy or educate the public, or just an average person trying to make sense of the cognitive dissonance or grapple with frustration over this looming issue, *What We Think About When We Try Not To Think About Global Warming* moves beyond the psychological barriers that block progress and opens new doorways to social and personal transformation.

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Innovation has become a buzzword that promises dramatic changes in almost every field of business. Absent from this attention is a serious discussion of the ethical sides of dramatic change. To address this, editors Georges Enderle and Patrick E. Murphy gather a team of experts to fully examine the ethics of innovation within business and the economy in this standout addition to the *Studies in TransAtlantic Business Ethics* series.

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.

Adaptation to Climate Change: ASEAN and Comparative Experiences presents a dynamic and comprehensive collection of works from legal scholars around the world that delves into a relatively new frontier on legal aspects of climate change adaptation with focus on the ASEAN region, both at the regional level as well as at the national level in some ASEAN countries — such as Malaysia, Philippines, and Thailand. Other countries not within ASEAN are also represented, such as Bangladesh, People's Republic of China, Sri Lanka, and the Republic of Taiwan. In doing so, it surveys one of the most important issues confronting developing countries today, and the challenges to building resilient societies. It is an essential source of reference for policy-makers, administrators, the private sector officials, scientists, academic scholars, climatologists, NGOs, and CSOs in ASEAN and the world. Contents: Foreword by Tommy Koh, Ambassador-at-Large Preface and Acknowledgments About the Authors Keynote Address by Raman Letchumanan, formerly Head of the Environment Division, ASEAN Secretariat Theme I: Coastal Warming and Sea Level Rise: Asia-Pacific Islander Responses to Climate Change (Ilan Kelman) Managing Southeast Asian Ecosystems to Reduce Coastal Population Vulnerability Under Sea Level Rise (Daniel A Friess) Theme II: Legal Frameworks/Policies/Governance for Climate Change: Adaptive Water Governance: Lessons Learned from Implementing an Ecosystem-Approach in Mesoamerica (Alejandro Iza, Alexandra Müller, and Valentina Nozza) Legal and Policy Framework for Ecosystem-Based Adaptation to Climate Change in Malaysia: A Reform Oriented Study (Abdul Haseeb Ansari) Policy and Legal Responses to Climate Change Adaptation in China: New Developments, New Challenges (Wang Xi and Gao Qi) Theme III: Key Future Impacts and Vulnerabilities: The Laws, Policies, and Institutions Relating to Climate Change in Thailand: Balancing between "Mitigation" and "Adaptation" (Kanongnij Sribuaiam) The Warsaw International Mechanism: Exploring the Structures and Functions to Address Loss and Damage Associated with Climate Change Impacts (M Hafijul Islam Khan) Geoengineering: An ASEAN Position (Jolene Lin) Theme IV: Economic Interconnections: Assessing Green Jobs in Taiwan: A Tri-Pillar Approach (Fan Chien-Te and Hsu Yun-Hsiang) Sustaining Growth, Climate Change, and Meeting Environmental Obligations: What can ASEAN Governments Do? (Euston Quah and Tan Tsiat Siong) Theme V: Some Case Studies: Options for Adaption to Climate Change (Richard L Ottinger, Wang Pianpian, and Kristen M Motel) Dealing with Climate Migrants: A New Challenge for Developing Nations (Asanga Gunawansa) Climate Change, Migration, and International Law in Southeast Asia (Benoît Mayer) Achieving Human Rights in an Era of Climate Disruption: The Philippines (Amado S Tolentino, Jr.) Theme VI: Adaptation — Disaster Management, Risk Reduction and Humanitarian Assistance: The Legal Regime of Climate Change Adaptation and Disaster Management in Taiwan: Focus on the Major Amendment Following the Devastating Typhoon Morakot of 2009 (Gao Ming-Zhi Anton) Legal Options for Mainstreaming Climate Change Disaster Risk Reduction in Governance for Kenya (Robert Kibugi) Land Tenure Systems as a Challenge for Disaster Recovery: Adapting to Extreme Weather Events after Typhoon Haiyan (Daniel Fitzpatrick and Caroline Compton) The Role of ASEAN in Disaster Management: Legal Frameworks and Case Study of Typhoon Haiyan/Yolanda (Koh Kheng-Lian and Rose-Liza Eisma-Osorio) Readership: Policy-makers, administrators, scientists, academic scholars, climatologists, NGOs and CSOs, and students in the fields of law and environmental science. Key Features: A dynamic collection of works from legal

scholars around the world building knowledge in climate change adaptation, one of the important issues confronting people of today Promotes a "whole of the world" approach to finding solutions to climate change and the challenges to building resilient societies This publication is focused on taking stock of legal and policy frameworks on climate change adaptation in ASEAN and other countries Keywords: Climate Change Adaptation; Legal Frameworks; ASEAN; Nature-based Solutions; Warsaw International Loss and Damage; Mitigation

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New York. Athens. Wenzhou. Boston. Oslo. Dhaka. New Orleans. Nairobi. In recent years, dozens of cities across the globe have been hit by large-scale catastrophes of every kind: natural disaster, geopolitical conflict, food shortages, disease and contagion, terrorist attacks. If you haven't been directly touched by one of these cataclysms yourself, in our interconnected world you are sure to have been affected in some way. They harm vulnerable individuals, destabilise communities and threaten organisations and even whole societies. We are at greater risk than ever from city-wide catastrophe, and as the severity and frequency of these disasters increase, we must become better at preparing for, responding to and recovering from them. Be it Haiti's dependence on humanitarian aid, the rebuilding effort after the Great Fire of Manhattan or the reason why more girls than boys drowned in Japan's 2011 tsunami, *The Resilience Dividend* combines vivid stories with practical insights (such as how to disaster-proof a building) and ground-breaking research to help build a radical future in which individuals, companies and entire societies face disaster by creating more dynamic, more resilient cities.

The Arctic has again become one of the leading issues on the international foreign policy agenda, in a manner unseen since the Cold War. Drawing on the perspectives of geo-politics and international law, this Handbook offers fresh insights and perspectives on the most pressing issues, grouped under the headings of political ascendancy, climate and environmental issues, resources and energy, and the response and policies of affected countries.

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The updated and expanded third edition of this book focuses on the multi-disciplinary coupling between flight-vehicle hardware alternatives and enabling propulsion systems. It discusses how to match near-term and far-term aerospace vehicles to missions and provides a comprehensive overview of the subject, directly contributing to the next-generation space infrastructure, from space tourism to space exploration. This holistic treatment defines a mission portfolio addressing near-term to long-term space transportation needs covering sub-orbital, orbital and escape flight profiles. In this context, a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access. A best-practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission. This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike.

The essential guide by one of America's leading doctors to how digital technology enables all of us to take charge of our health A trip to the doctor is almost a guarantee of misery. You'll make an appointment months in advance. You'll probably wait for several hours until you hear "the doctor will see you now"-but only for fifteen minutes! Then you'll wait even longer for lab tests, the results of which you'll likely never see, unless they indicate further (and more invasive) tests, most of which will probably prove unnecessary (much like physicals themselves). And your bill will be astronomical. In *The Patient Will See You Now*, Eric Topol, one of the nation's top physicians, shows why medicine does not have to be that way. Instead, you could use your smartphone to get rapid test results from one drop of blood, monitor your vital signs both day and night, and use an artificially intelligent algorithm to receive a diagnosis without having to see a doctor, all at a small fraction of the cost imposed by our modern healthcare system. The change is powered by what Topol calls medicine's "Gutenberg moment." Much as the printing press took learning out of the hands of a priestly class, the mobile internet is doing the same for medicine, giving us unprecedented control over our healthcare. With smartphones in hand, we are no longer beholden to an impersonal and paternalistic system in which "doctor knows best." Medicine has been digitized, Topol argues; now it will be democratized. Computers will replace physicians for many diagnostic tasks, citizen science will give rise to citizen medicine, and enormous data sets will give us new means to attack conditions that have long been incurable. Massive, open, online medicine, where diagnostics are done by Facebook-like comparisons of medical profiles, will enable real-time, real-world research on massive populations. There's no doubt the path forward will be complicated: the medical establishment will resist these changes, and digitized medicine inevitably raises serious issues surrounding privacy. Nevertheless, the result-better, cheaper, and more human health care-will be worth it. Provocative and engrossing, *The Patient Will See You Now* is essential reading for anyone who thinks they deserve better health care. That is, for all of us.

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