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Why does North Korea want to possess nuclear capabilities? In order to find the answer to this question, we must have an accurate understanding of the history and structure of the North Korean regime. So far, we have only formed conjectures and predictions regarding North Korea based on our own perspectives; we now need to deal with and consider North Korea “as is” to reach viable solutions to the issues North Korea presents. This volume contains analyses of the most salient, critical issues pertinent to understanding the

North Korean regime, penned by representative Korean scholars of North Korea. As such, the book examines the historical formation of North Korea, the identities of those power elite, and the relative stability (or instability, as the case may be) of the new regime under Kim Jong-un. Also an important aspect to consider is the possibility of socio-economic change in North Korea. Though North Korea has remained relatively static vis-à-vis its political and military systems, it is in the process of becoming rapidly marketized, having continued various attempts to modify its economic policy. In the social realm, said economic shift

has elicited the polarization of the disparate classes and the expansion of individualism. Such social transformations, obscured by the easily visible political reality of North Korea, can provide solid grounds for determining the future of the North Korea regime. Moreover, it is imperative that we accurately understand the motivation behind North Korea’s intention to develop nuclear weapons—namely, the expansion of deterrence. We must recognize the reasons for the North Korean hostility toward the United States from the very beginning of the DPRK formation and the North Korean fixation on nuclear weapons develop-

ment. Further, we need to understand the nature of relations between China and North Korea—relations on which the international community has focused since North Korea began its nuclear testing—as well as the history and structure of relations between North and South Korea. Only when we accurately understand North Korea can we reach solutions to the North Korean nuclear issue. The studies in this volume by Korean scholars will reveal the veiled background of the visible phenomena and thereby help the readers to correctly understand the North Korean behaviors hitherto misunderstood (or even those that were impossible to understand).

Chronic hepatitis B (CHB) is a life-threatening liver disease affecting 257 million people worldwide, in particular in the Asia-Pacific regions. In endemic areas, hepatitis B virus (HBV) is usually transmitted from chronically infected mothers to neonates. Perinatal HBV infection causes chronic infection in more than 90% of exposed individuals. With perinatal infection, lifetime mortality risk due to complications of liver cirrhosis (LC) or hepatocellular carcinoma (HCC) reaches up to 40% in men and 15% in women. For the treatment of chronic

HBV infection, nucleos(t)ide analogue antivirals have been successfully used to suppress viral replication. However, HBV exists as a cccDNA, which cannot be eliminated by nucleos(t)ide analogues. Therefore, a practical goal of novel HBV therapeutics can be HBs seroconversion (loss of HBsAg and development of HBsAg-specific antibodies), which occurs during spontaneous recovery from acute HBV infection. This HBs seroconversion is referred to as “functional cure” of HBV infection. When functional cure is reached, HBsAg-specific antibodies have virus-neutralizing activity and control HBV infection even in the presence of cccDNA. Currently, peg-IFN- α is often used to induce HBs seroconversion in patients with chronic HBV infection; however, the efficacy is not satisfactory. In future, other immunological therapeutics must be considered to achieve HBs seroconversion, including therapeutic vaccines and immune checkpoint blockers.

South Korea has been through important changes since its democratization in the late 1980s - most recently in 2016–2017 when the candlelight protests led to the ousting of Park Geun-hye and the election

of Moon Jae-in. Taking a thematic approach to understanding South Korean democracy, each chapter in this textbook is written by a leading Korean expert on a different element of South Korean politics and government. Covering themes such as intergenerational differences, the instability of the party system, the role of the president, and the impact of the 2016 demonstrations, this is a vital and lively introduction to Korean politics. This systematic and nuanced approach helps you understand the past, present, and possible futures of South Korea’s democracy. It also helps in understanding South Korea’s system for the purposes of comparing it with other political systems. The *New Dynamics of Democracy in South Korea* is an invaluable textbook for students of Korean politics, which will also be a useful resource for scholars of comparative democracy.

This book uses South Korean newspaper articles from 24 years and quantitative text analysis to show how extreme political polarization is increasing in ideological language more than in ideological policy. The author highlights the difference and explains how to see through the emptiness of ideological labels.

Following an overview of nanotechnologies for diagnostic purposes, this book goes on to look at nanoparticle-based magnetic resonance, molecular and other imaging applications, as well as the potential roles of carbon nanotubes and bionanoparticles in biomedical applications. The book's main focus is on drug delivery systems based on nonporous and nanosize materials, solid lipid and polymeric nanoparticles, intelligent hydrogels, core-shell nanoparticles, and nanocapsules, rounded off by a discussion of their biomedical applications. The final part of this volume covers such biomedical strategies as gene therapy, synthetic gene-transfer vectors and targeted delivery.

"Divided Nations and Transitional Justice" is a collection of significant writings contributed by the late president Kim Dae-jung of the Republic of Korea and former president Richard von Weizsaecker of Germany. This book presents insightful views, lifetime career experiences, and expertise of the two prominent leaders in the critical fields of unification, peace, and justice and reconciliation. It centers on the cases of Korea, Germany and Japan, and considers how these countries have moved to ad-

dress and come to terms with their wartime past. This book moves to deliver messages of hope and vision on how to further the values of peace, reconciliation and cooperation in the twenty-first century."

This monograph is a comprehensive introduction to the field of soccer robotics. Soccer robotics has become an important research area integrating mechatronics, computer science and artificial intelligence techniques to create real-world autonomous systems. It also serves as a popular test arena in which to compare the different approaches, in diverse types of competition and with varying levels of distributed perception and collaboration. The focus of this monograph is the FIRA framework of Soccer Robotics, in particular MiroSot, which uses a central overhead camera to overview the whole soccer field and a central control of the robots. "Soccer Robotics" completely describes the different requirements to create a soccer team and details the hardware aspects, the computer vision needed, navigation, action selection, basic skills and game strategy. These aspects are described at an undergraduate level, resulting in a book not only use-

ful as a text for courses but also indispensable for everyone who wants to participate in MiroSot robotics.

North Korea's opaqueness combined with its military capabilities make the country and its leader dangerous wild cards in the international community. Brookings Senior Fellow Jung H. Pak, who led the U.S. intelligence community's analysis on Korean issues, tells the story of North Korean leader Kim Jong-un's upbringing, provides insight on his decision-making, and makes recommendations on how to thwart Kim's ambitions. In her deep analysis of the personality of the North Korean leader, Pak makes clearer the reasoning behind the way he governs and conducts his foreign affairs.

It is well-known that the topic of composite materials affects many engineering fields, such as civil, mechanical, aerospace, automotive and chemical. In the last decades, in fact, a huge number of scientific papers concerning these peculiar constituents has been published. Analogously, the industrial progress has been extremely noticeable. The study of composite materials, in general, is a challenging activity since the advancements both in the

academia and in the industry provide continually new sparks to develop innovative ideas and applications. The communication, the sharing and the exchange of views can surely help the works of many researchers. This aspect represents the main purpose of this Conference, which aims to collect high-level contributions on the development and the application of composite materials. The establishment of this 21st edition of International Conference on Composite Structures has appeared appropriate to continue what has been begun during the previous editions. ICCS wants to be an occasion for many researchers from each part of the globe to meet and discuss about the recent advancements regarding the use of composite structures, sandwich panels, nanotechnology, bio-composites, delamination and fracture, experimental methods, manufacturing and other countless topics that have filled many sessions during this conference. As a proof of this event, which has taken place in Bologna (Italy), selected plenary and key-note lectures have been collected in the present book. Mention North Korea to people today and they will conjure up many unflattering im-

ages, particularly in the wake of George W. Bush denouncing the state as part of an "axis of evil". Despite this cold war type rhetoric, the state of North Korea has begun to recognise the difficult challenges that it faces and is now trying to get to grips with them systematically. This book brings together a selection of many of the world experts on the North Korean economy and covers such important issues as: *possible unification with South Korea *the significance of China's economic success *Europe and the United States' roles in North Korea North Korea in the World Economy provides an accessible, well-written and comprehensive account of this unique country and its economy. It will be extremely interesting not only for students and academics with an interest in Korean studies, international finance and transition economies but also for anyone with an interest in international economics.

The phenomenon of South Korean Christianity is, in a word, remarkable. In less than 250 years, 29% of South Korea's population adheres to Christianity, a staggering 71% of Korean Americans identify as Christian, and the powerful zeal of Korean

Christians to spread the Gospel's influence in South Korea already overshadows other established religious groups (i.e. Buddhism, Confucianism). This Handbook offers a comprehensive overview on how the Bible has been used by faith communities in Korea and the Korean diaspora over two centuries.

G20 members bring together the world's major advanced and emerging economies, as well as the European Union. Together they represent some 90% of global GDP, 80% of global trade and two-thirds of the world's population. In recognition of educational development as a key driver of economic development, the G20 members have put education reform high on their policy agenda in order to meet the challenges and embrace the opportunities ahead. Their experiences and lessons in education reform will not only showcase the global trend of education development, but also will provide valuable reference and inspiration for undertaking education reform to advance national development in China as well as other countries. This book documents recent policy reform in G20 members' systems, showcases the global trends in education policy, serves

as a valuable reference tool and also provide inspiration for undertaking education reform to advance development in related countries.

Politics and Leadership in North Korea, now fully updated in this second edition, presents an accessible and comprehensive account of North Korea's political, economic and foreign policies since its creation in 1945. Moving away from media representations of North Korea as dangerously erratic and dysfunctional, Adrian Buzo provides a thorough analysis of Kim Il Sung's vision for the DPRK and demonstrates the consistency of the successive leaderships' approach to politics, economics and international affairs. This second edition has been fully revised and takes into account all the important events of the last fifteen years in North Korea, such as: • endemic food shortages; • the steady growth of military emphasis in both politics and ideology; • the acquisition and continued development of nuclear capabilities; • the implementation and eventual failure of South Korea's 'sunshine policy'; • the growth of private enterprise and a consumer economy. As such, it will continue to be an essential

resource for students of North Korea, East Asian Politics and International Politics.

This book constitutes the thoroughly refereed post-proceedings of the 5th IFIP WG 10.2 International Workshop on Software Technologies for Future Embedded and Ubiquitous Systems, SEUS 2007, held in conjunction with ISORC 2007, the 10th IEEE International Symposium on Object-/component/service-oriented Real-time Distributed Computing. Coverage includes ubiquitous computing frameworks, validation of embedded and ubiquitous systems, and ubiquitous computing applications.

A virus is considered a nanoscale organic material that can infect and replicate only inside the living cells of other organisms, ranging from animals and plants to microorganisms, including bacteria and archaea. The structure of viruses consists of two main parts: the genetic material from either DNA or RNA that carries genetic information, and a protein coat, called the capsid, which surrounds and protects the genetic material. By inserting the gene encoding functional proteins into the viral genome, the functional proteins can be genetically displayed on the protein coat to

form bioengineered viruses. Therefore, viruses can be considered biological nanoparticles with genetically tunable surface chemistry and can serve as models for developing virus-like nanoparticles and even nanostructures. Via this process of viral display, bioengineered viruses can be mass-produced with lower cost and potentially used for energy and biomedical applications. This book highlights the recent developments and future directions of virus-based nanomaterials and nanostructures. The virus-based biomimetic materials formulated using innovative ideas were characterized for the applications of biosensors and nanocarriers. The research contributions and trends on virus-based materials covering energy harvesting devices to tissue regeneration in the last two decades are discussed.

The Once and Future Hegemon In a world bristling with dangers, only one enemy poses a truly mortal challenge to the United States and the peaceful and prosperous world that America guarantees. That enemy is China, a country -that invented totalitarianism thousands of years ago -whose economic power rivals our own -that believes its superior race and culture give it

the right to universal deference -that teaches its people to hate America for standing in the way of achieving its narcissistic “dream” of world domination -that believes in its manifest destiny to usher in the World of Great Harmony -which publishes maps showing the exact extent of the nuclear destruction it could rain down on the United States Steven Mosher exposes the resurgent aspirations of the would-be hegemon—and the roots of China’s will to domination in its five-thousand-year history of ruthless conquest and assimilation of other nations, brutal repression of its own people, and belligerence toward any civilization that challenges its claim to superiority. The naïve idealism of our “China hands” has lulled America into a fool’s dream of “engagement” with the People’s Republic of China and its “peaceful evolution” toward democracy and freedom. Wishful thinking, says Mosher, has blinded us to the danger we face and left the world vulnerable to China’s overweening ambitions. Mosher knows China as few Westerners do. Having exposed as a visiting graduate student the monstrous practice of forced abortions, he became the target of the regime’s crushing retaliation.

His encyclopedic grasp of China’s history and its present-day politics, his astute insights, and his bracing realism are the perfect antidote for our dangerous confusion about the Bully of Asia.

The martial arts are various methods of armed and unarmed combat, originally used in warfare in the Far East and shaped by Oriental philosophical concepts. The history of martial arts is challenging to document precisely, because of the lack of historical records, secretive nature of the teacher-student relationships and political circumstances during much of its history. The martial arts are popular in many parts of the world today as forms of self-defense, law enforcement tactics, competitive sports, and exercises for physical fitness. Among them are KARATE , Kung fu, jujitsu, JUDO, aikido, Tai chi chuan, Sumo wrestling, and kendo. This informative book takes it's reader on a journey throughout time and across the globe for a close up look at the history of many martial arts styles .

This comprehensive tutorial guide to silicon nanomaterials spans from fundamental properties, growth mechanisms, and

processing of nanosilicon to electronic device, energy conversion and storage, biomedical, and environmental applications. It also presents core knowledge with basic mathematical equations, tables, and graphs in order to provide the reader with the tools necessary to understand the latest technology developments. From low-dimensional structures, quantum dots, and nanowires to hybrid materials, arrays, networks, and biomedical applications, this Sourcebook is a complete resource for anyone working with this materials: Covers fundamental concepts, properties, methods, and practical applications. Focuses on one important type of silicon nanomaterial in every chapter. Discusses formation, properties, and applications for each material. Written in a tutorial style with basic equations and fundamentals included in an extended introduction. Highlights materials that show exceptional properties as well as strong prospects for future applications. Klaus D. Sattler is professor physics at the University of Hawaii, Honolulu, having earned his PhD at the Swiss Federal Institute of Technology (ETH) in Zurich. He was honored with the Walter Schottky Prize from the German Physical Society,

and is the editor of the sister work also published by Taylor & Francis, Carbon Nanomaterials Sourcebook, as well as the acclaimed multi-volume Handbook of Nanophysics.

Since the end of the Cold War, scholars and analysts have been predicting the collapse of the communist regime in North Korea. Yet, despite a deteriorating economy characterized by declining industrial output, outdated technology, and difficulty feeding its people, the country has been

able to persist and continues to plod along. How has North Korea been able to survive, and how long can it last without significant change to its economic and political structures? How can we peacefully resolve the North Korean nuclear standoff through constructive dialogue? This book examines North Korea's survival strategy and offers practical solutions to a 50-year nuclear standoff through a series of essays written by 15 of the world's foremost scholars and leading experts on strategy, eco-

nomics and international relations. It is essential reading for anyone interested in peace in Northeast Asia and will be invaluable in helping policy-makers, diplomats, politicians, researchers and other North Korea watchers to understand three closely related issues about North Korea: (1) why North Korea will continue to survive; (2) how the United States and North Korea can build a mutual confidence; and (3) why a dialogue is the only viable way to resolve the North Korea problem peacefully.