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Karanjit S. Siyan,Karanjit Siyan

OECD Reviews of Innovation Policy: Korea 2023 OECD, 2023-07-31 The Miracle on the River Han catapulted Korea from developing country to a prosperous economy, driven in part by advancements in science, technology, and innovation. Being the second-highest R&D spender among OECD economies, Korea excels in key technologies, including semiconductors, 6G, and ICT infrastructure.

Survivors of War Sang-mi Lee , 2022-11-15 BOOK SUMMARY There are many ways we can look at the history of war: history books, poetry, fiction novels, paintings, photographs, and movies, to name a few. The possible approaches to the history of war are endless, but did you know that architecture is also a lens through which we can glimpse into the wars of years past? War destroys buildings but also builds new ones. Those who began the wars disappear, but the architecture that lived through it remains to tell stories we must not forget. Famous buildings and sites that we may not initially associate with war, such as The Louvre in France, the Neue Wache in Germany, Windsor Castle in England, the Colosseum in Italy, the Grand Kremlin Palace in Russia are memory trunks that hold captivating and profound stories on war waiting to be told. Architecture—a witness, product, victim, and survivor of war—provides a window into the history of war. PREFACE The idea for this book, the war histories of famous architectural buildings and sites, came to me during an ordinary visit to the Louvre Museum. As an art history graduate student and then after, an aspiring curator working in Paris, I was a frequent visitor of the Louvre. Regrettably, it was only after a dozen or so visits that I finally found my way to the less crowded basement floor, where I came upon the preserved ruins of the museum's original architecture: a medieval

fortress. This discovery of the Louvre's genesis struck me. Aside from the well-known fact that it had once been the palace that the Sun King abandoned in favor of his new Versailles residence, I had never given much thought to the Louvre's history due to my preoccupation with the many histories it exhibits. It was fascinating to think that this representative museum of Art with a capital 'A' was once a twelfth-century fortress that provided military defense for the city of Paris in times of war. A quick online search further uncovered the Louvre's history of war. As it turns out, war was responsible for both the Louvre's beginnings as a fortress as well as its modern-day identity as the home for art objects from all over the world. War was not a chapter in the Louvre's story, but a main thread woven into its identity. Interestingly, this not only holds true for the Louvre, but many landmarks and cultural sites throughout Europe. Years later, I had the opportunity to write about this connection between famous architecture and war. The Kookbang-ilbo, or the National Defense Daily approached me in early 2019 to propose I write for their Arts and Culture section. I suggested this topic and the first installment of the column "War as told by Architecture," The Louvre Museum, was published on July 15 later that year. 17 months, 76 installments, and 75 architectures later, these columns became the seed for this book. This passion project revisits the histories of war tucked away in the attics, or in the case of the Louvre, the basement of these buildings. Countless places usually seen through rose-colored glasses bear painful memories and permanent scars behind their façades. Their stories prompt a reconsideration of these sites beyond their attraction as tourist spots and reflection on the impact of war on people as well as the walls that surround, defend, shelter, represent, fail and at times, imprison. Survivors of War:

Architecture before the 21st century is not an exhaustive history of Europe's wars or architecture. The chosen sites are organized by countries, which have been narrowed down to some of the most famous locations in France, Italy, England, Germany, Russia, Spain, Poland, Austria, Czech Republic, Finland, the Netherlands, Turkey, Syria, Bosnia-Herzegovina, and Greece in no particular order. The first five chapters are each assigned to a country, while the last chapter groups architectural sites in multiple countries. The latter was organized in this way because these countries had less than three sites that I decided to include in this book. There are many palaces, bridges, fortresses, towers, and plazas with fascinating war stories that did not make it into this book, but that I hope to write about one day. To begin, here are the stories of those that are sure to capture any reader's interest.

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 Major Contents The Louvre Museum's war history centers around the famous
 Napoleon Bonaparte (1769-1821). Napoleon entered the Paris Military Academy
 (École Militaire) in 1784 and within a year, he was commissioned as an
 artillery lieutenant. He took office as deputy commander of the Corsica
 National Army during the French Revolution in 1789. With the success of the
 November 1799 coup d'état, Napoleon became a powerful figure of authority and
 eventually went on to become the emperor of France's first empire from 1804
 to 1815. Although he suffered a crushing defeat at the hands of the British
 Royal Navy at the Battle of Trafalgar, Napoleon nevertheless conquered the
 Continent by bringing down the Prussian and Russian empires and defeating
 Austria, which effectively dissolved the Holy Roman Empire. - THE LOUVRE
 MUSEUM, 18p Edward IV of the victorious House of York was crowned king, and
 Henry VI was executed in the Tower of London. Later, when Edward IV died
 after more than a decade of rule, his 12-year old son Edward V was crowned
 king in 1483, but just two months after he ascended the throne, the young
 king went missing along with his brother, Richard of Shrewsbury, the Duke of
 York. In 1674, workmen repairing the stairs of the White Tower of the Tower
 of London, found a box containing the remains of two children, presumed to be
 the remains of the two brothers. Eventually, the Wars of the Roses concluded
 with the death of Richard III in the Battle of Bosworth Field, thus opening
 up the era of the House of Tudors, who ruled the Kingdoms of England and

Ireland under five monarchs, and the accession of Henry VII. - THE TOWER OF LONDON, 65p Home to 127 factories and industries, Dresden was the seventh largest German city and the center of telecommunications and manufacturing by the 20th century. For this reason, this important industrial city became an obvious target for Allies during World War II. From February 13 to February 15 in 1945, 722 British Air Force bombers and 527 U.S. Army Air Force bombers flew over Dresden and dropped more than 3,900 tons of bombs upon the beautiful city. The heat generated by bombings and bombs created a firestorm throughout Dresden. This tragic bombing destroyed 90% of Dresden and killed about 25,000 innocent civilians. The Church of Our Lady endured two days of Allied bombing, but eventually succumbed at 10 a.m. on February 15 to the heat generated 650,000 incendiary bombs that fell on the city. This was mainly because the material of the church, sandstone, was particularly vulnerable to heat. - DRESDNER FRAUENKIRCHE, 121p With the outbreak of World War I in 1914, the last Tsar of the Romanov dynasty of Russia, Nicholas II (1868-1918), had 15 million soldiers jump into the battlefield in order to mollify the people's discontent. Sadly, due to the incapacity of the commanders, 800,000 Russians were defeated by the far fewer 160,000 Germans in the Battle of Tannenberg. Due to the void left by the mass of young men taken into war, the labor force in Russia rapidly deteriorated, which in turn resulted in greater suffering for the people. The prolonged period of such dire circumstances and hardships during World War I, the last dynasty of Russia collapsed after the February and October Revolutions of 1917, upon which, the Soviet regime was established. - HERMITAGE MUSEUM, 180p The name Colosseum comes from the Latin word Colossale, which means colossal. It is believed that the Colosseum's name came from its location near to a 30-meter-

tall colossal statue of Emperor Nero that no longer exists. The enormous amphitheater is 188 meters in diameter, 156 meters in length, 527 meters in circumference and 48 meters in height. Made of four arcaded stories, this single structure exhibits all three architectural styles of Greece and Rome. The ground level is made of columns in the simple and heavy Doric order, the second story is made in the soft and delicate Ionic order, and the third and fourth stories are made in the slender and decorative Corinthian order. Marble decorates the outer walls while wood and reddish sand covers the stadium's floor in order to disguise the blood that was spilt from the violent games that took place there. - THE COLOSSEUM, 192p

The official symbol of UNESCO is modeled on the Parthenon. The reason for this is because the Parthenon is representative of UNESCO's efforts to protect cultural treasures. In order to prevent further damage due natural disasters, time, and wars, UNESCO designated the Parthenon as World Heritage Site No.I. There have been renovations amde throughout the temple, but different marble colors were used to differentiate between the original and repaired columns. To reach this temple, which sits atop the Acropolis, visitors need to pass by many other sites. Among them, Herodes Atticus Theater, is an outdoor theater located on the southwest part of the Acropolis. Parts of the Parthenon are displayed in the British Museum in London, England. When will they return to their original home? - THE PARTHENON, 258p

Cyber Operations Mike O'Leary, 2019-03-01 Know how to set up, defend, and attack computer networks with this revised and expanded second edition. You will learn to configure your network from the ground up, beginning with developing your own private virtual test environment, then setting up your own DNS server and AD infrastructure. You will continue with more advanced

network services, web servers, and database servers and you will end by building your own web applications servers, including WordPress and Joomla!. Systems from 2011 through 2017 are covered, including Windows 7, Windows 8, Windows 10, Windows Server 2012, and Windows Server 2016 as well as a range of Linux distributions, including Ubuntu, CentOS, Mint, and OpenSUSE. Key defensive techniques are integrated throughout and you will develop situational awareness of your network and build a complete defensive infrastructure, including log servers, network firewalls, web application firewalls, and intrusion detection systems. Of course, you cannot truly understand how to defend a network if you do not know how to attack it, so you will attack your test systems in a variety of ways. You will learn about Metasploit, browser attacks, privilege escalation, pass-the-hash attacks, malware, man-in-the-middle attacks, database attacks, and web application attacks. What You'll Learn Construct a testing laboratory to experiment with software and attack techniquesBuild realistic networks that include active directory, file servers, databases, web servers, and web applications such as WordPress and Joomla!Manage networks remotely with tools, including PowerShell, WMI, and WinRMUse offensive tools such as Metasploit, Mimikatz, Veil, Burp Suite, and John the RipperExploit networks starting from malware and initial intrusion to privilege escalation through password cracking and persistence mechanismsDefend networks by developing operational awareness using auditd and Sysmon to analyze logs, and deploying defensive tools such as the Snort intrusion detection system, IPFire firewalls, and ModSecurity web application firewalls Who This Book Is For This study guide is intended for everyone involved in or interested in cybersecurity operations (e.g., cybersecurity professionals, IT professionals, business professionals, and

students)

Wireless Communications Systems Architecture Khaled Salah Mohamed, 2022-10-31 This book discusses wireless communication systems from a transceiver and digital signal processing perspective. It is intended to be an advanced and thorough overview for key wireless communication technologies. A wide variety of wireless communication technologies, communication paradigms and architectures are addressed, along with state-of-the-art wireless communication standards. The author takes a practical, systems-level approach, breaking up the technical components of a wireless communication system, such as compression, encryption, channel coding, and modulation. This book combines hardware principles with practical communication system design. It provides a comprehensive perspective on emerging 5G mobile networks, explaining its architecture and key enabling technologies, such as M-MIMO, Beamforming, mmWaves, machine learning, and network slicing. Finally, the author explores the evolution of wireless mobile networks over the next ten years towards 5G and beyond (6G), including use-cases, system requirements, challenges and opportunities.

Judaic Technologies of the Word Gabriel Levy, 2014-10-14 Judaic Technologies of the Word argues that Judaism does not exist in an abstract space of reflection. Rather, it exists both in artifacts of the material world – such as texts – and in the bodies, brains, hearts, and minds of individual people. More than this, Judaic bodies and texts, both oral and written, connect and feed back on one another. Judaic Technologies of the Word examines how technologies of literacy interact with bodies and minds over time. The emergence of literacy is now understood to be a decisive factor in religious history, and is central to the transformations that took place in the ancient

Near East in the first millennium BCE. This study employs insights from the cognitive sciences to pursue a deep history of Judaism, one in which the distinctions between biology and culture begin to disappear.

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The Engineer's Error Coding Handbook A. Houghton, 2012-12-06 Error coding is a fascinating subject as much, if not more so, as it is an indispensable part of modern engineering systems. Unfortunately, in a bid to remain general and to create a solid foundation upon which to build, many books on this subject are out of the reach of those with more engineering-based, or non-mathematical backgrounds. This is a pity because in many cases the maths is tractable with few and simple rules. If we are content to believe that it works, and let others worry about the deeper mysteries of how or why, then with a little practice the design and implementation of practical error coding systems becomes straightforward. In this text I have attempted to reveal the useful kernel of the subject, removing the shell of terms and proofs that usually surrounds it. Being somewhat empirical in nature (an empiricist), and occasionally heard to quote the adage, 'if it works twice it's a law', my explanations take this form. For many, including myself, abstract ideas are often better grasped by practical illustration than from yards of theory.

Imagine Alex Sangha, 2010 Imagine places ideas in society and gets readers thinking critically about their most cherished beliefs and values. The topics are vast and varied. Abortion, immigration, gay rights, love, mentorship, and sustainable development. There is no right answer. We must come to our own conclusions. If we can listen and learn from each other, we can accept our differences. Everyone has ideas on how to make the world a better place and

fill humankind with hope. Imagine espouses humanitarian and egalitarian ideals such as every citizen deserves to reach their potential and contribute to society. Imagine is written from the perspective of protecting the people and the planet for current and future generations. You will learn of thought-provoking issues. The book proposes that we are all one and connected by spiritual energy. This will help us look for what we have in common and bring about social peace, social progress, and social change that lights our soul and lifts humanity in one colossal embrace.

Fault Tolerance Analysis and Design for JPEG-JPEG2000 Image Compression Systems Cung Nguyen, 2004

Stream Ciphers in Modern Real-time IT Systems Alexandr Alexandrovich Kuznetsov, Oleksandr Volodymyrovych Potii, Nikolay Alexandrovich Poluyanenko, Yurii Ivanovich Gorbenko, Natalia Kryvinska, 2021-11-19 This book provides the most complete description, analysis, and comparative studies of modern standardized and most common stream symmetric encryption algorithms, as well as stream modes of symmetric block ciphers. Stream ciphers provide an encryption in almost real-time regardless of the volume and stream bit depth of converted data, which makes them the most popular in modern real-time IT systems. In particular, we analyze the criteria and performance indicators of algorithms, as well as the principles and methods of designing stream ciphers. Nonlinear-feedback shift registers, which are one of the main elements of stream ciphers, have been studied in detail. The book is especially useful for scientists, developers, and experts in the field of cryptology and electronic trust services, as well as for the training of graduate students, masters, and bachelors in the field of information security.

Introduction to Network Security Jie Wang, Zachary A. Kissel, 2015-07-10
Introductory textbook in the important area of network security for undergraduate and graduate students Comprehensively covers fundamental concepts with newer topics such as electronic cash, bit-coin, P2P, SHA-3, E-voting, and Zigbee security Fully updated to reflect new developments in network security Introduces a chapter on Cloud security, a very popular and essential topic Uses everyday examples that most computer users experience to illustrate important principles and mechanisms Features a companion website with Powerpoint slides for lectures and solution manuals to selected exercise problems, available at <http://www.cs.uml.edu/~wang/NetSec>

Behavioral Cybersecurity Wayne Patterson, Cynthia E. Winston-Proctor, 2020-12-07 This book discusses the role of human personality in the study of behavioral cybersecurity for non-specialists. Since the introduction and proliferation of the Internet, cybersecurity maintenance issues have grown exponentially. The importance of behavioral cybersecurity has recently been amplified by current events, such as misinformation and cyber-attacks related to election interference in the United States and internationally. More recently, similar issues have occurred in the context of the COVID-19 pandemic. The book presents profiling approaches, offers case studies of major cybersecurity events and provides analysis of password attacks and defenses. Discussing psychological methods used to assess behavioral cybersecurity, alongside risk management, the book also describes game theory and its applications, explores the role of cryptology and steganography in attack and defense scenarios and brings the reader up to date with current research into motivation and attacker/defender personality traits. Written for practitioners in the field, alongside nonspecialists with little prior

knowledge of cybersecurity, computer science, or psychology, the book will be of interest to all who need to protect their computing environment from cyber-attacks. The book also provides source materials for courses in this growing area of behavioral cybersecurity.

Windows 2000 TCP/IP Karanjit S. Siyan, Karanjit Siyan, 2000 This informative and complex reference book is written by Dr. Karanjit Siyan, successful author and creator of some of the original TCP/IP applications. The tutorial/reference hybrid offers a complete, focused solution to Windows internetworking concepts and solutions and meets the needs of the serious system administrator by cutting through the complexities of TCP/IP advances.

Cyber Spying Tracking Your Family's (Sometimes) Secret Online Lives Eric Cole, Michael Nordfelt, Sandra Ring, Ted Fair, 2005-03-15 *Cyber Spying Tracking Your Family's (Sometimes) Secret Online Lives* shows everyday computer users how to become cyber-sleuths. It takes readers through the many different issues involved in spying on someone online. It begins with an explanation of reasons and ethics, covers the psychology of spying, describes computer and network basics, and takes readers step-by-step through many common online activities, and shows what can be done to compromise them. The book's final section describes personal privacy and counter-spy techniques. By teaching by both theory and example this book empowers readers to take charge of their computers and feel confident they can be aware of the different online activities their families engage in. Expert authors have worked at Fortune 500 companies, NASA, CIA, NSA and all reside now at Sytex, one of the largest government providers of IT services. Targets an area that is not addressed by other books: black hat techniques for computer security at the personal computer level. Targets a wide audience: personal computer users, specifically

those interested in the online activities of their families

Modern Cryptography Primer Czesław Kościelny, Mirosław Kurkowski, Marian Srebrny, 2013-11-19 Cryptography has experienced rapid development, with major advances recently in both secret and public key ciphers, cryptographic hash functions, cryptographic algorithms and multiparty protocols, including their software engineering correctness verification, and various methods of cryptanalysis. This textbook introduces the reader to these areas, offering an understanding of the essential, most important, and most interesting ideas, based on the authors' teaching and research experience. After introducing the basic mathematical and computational complexity concepts, and some historical context, including the story of Enigma, the authors explain symmetric and asymmetric cryptography, electronic signatures and hash functions, PGP systems, public key infrastructures, cryptographic protocols, and applications in network security. In each case the text presents the key technologies, algorithms, and protocols, along with methods of design and analysis, while the content is characterized by a visual style and all algorithms are presented in readable pseudocode or using simple graphics and diagrams. The book is suitable for undergraduate and graduate courses in computer science and engineering, particularly in the area of networking, and it is also a suitable reference text for self-study by practitioners and researchers. The authors assume only basic elementary mathematical experience, the text covers the foundational mathematics and computational complexity theory.

Compute , 1987

Advertising Uwe Stoklossa, 2007 This unique compendium is packed with examples of eye-catching advertisements that use optical magic in order to

hook the viewer, and to make sure that they give the ad that crucial second glance. Brimming with ideas and inspiration, this handbook of visual seduction will be a must-read for anyone working in advertising or involved in the business of communication.

Cryptology Richard E. Klima, Neil P. Sigmon, 2012-06-20 Easily Accessible to Students with Nontechnical Backgrounds In a clear, nontechnical manner, Cryptology: Classical and Modern with Maplets explains how fundamental mathematical concepts are the bases of cryptographic algorithms. Designed for students with no background in college-level mathematics, the book assumes minimal mathematical prerequisites and incorporates student-friendly Maplets throughout that provide practical examples of the techniques used. Technology Resource By using the Maplets, students can complete complicated tasks with relative ease. They can encrypt, decrypt, and cryptanalyze messages without the burden of understanding programming or computer syntax. The authors explain topics in detail first before introducing one or more Maplets. All Maplet material and exercises are given in separate, clearly labeled sections. Instructors can omit the Maplet sections without any loss of continuity and non-Maplet examples and exercises can be completed with, at most, a simple hand-held calculator. The Maplets are available for download at www.radford.edu/~npsigmon/cryptobook.html. A Gentle, Hands-On Introduction to Cryptology After introducing elementary methods and techniques, the text fully develops the Enigma cipher machine and Navajo code used during World War II, both of which are rarely found in cryptology textbooks. The authors then demonstrate mathematics in cryptology through monoalphabetic, polyalphabetic, and block ciphers. With a focus on public-key cryptography, the book describes RSA ciphers, the Diffie-Hellman key exchange, and ElGamal

ciphers. It also explores current U.S. federal cryptographic standards, such as the AES, and explains how to authenticate messages via digital signatures, hash functions, and certificates.

Beneath Apple ProDOS Don Worth, Pieter Lechner, 1984

Network Security with OpenSSL John Viega, Matt Messier, Pravir Chandra, 2002-06-17 Most applications these days are at least somewhat network aware, but how do you protect those applications against common network security threats? Many developers are turning to OpenSSL, an open source version of SSL/TLS, which is the most widely used protocol for secure network communications. The OpenSSL library is seeing widespread adoption for web sites that require cryptographic functions to protect a broad range of sensitive information, such as credit card numbers and other financial transactions. The library is the only free, full-featured SSL implementation for C and C++, and it can be used programmatically or from the command line to secure most TCP-based network protocols. Network Security with OpenSSL enables developers to use this protocol much more effectively. Traditionally, getting something simple done in OpenSSL could easily take weeks. This concise book gives you the guidance you need to avoid pitfalls, while allowing you to take advantage of the library's advanced features. And, instead of bogging you down in the technical details of how SSL works under the hood, this book provides only the information that is necessary to use OpenSSL safely and effectively. In step-by-step fashion, the book details the challenges in securing network communications, and shows you how to use OpenSSL tools to best meet those challenges. As a system or network administrator, you will benefit from the thorough treatment of the OpenSSL command-line interface, as well as from step-by-step directions for obtaining

certificates and setting up your own certification authority. As a developer, you will further benefit from the in-depth discussions and examples of how to use OpenSSL in your own programs. Although OpenSSL is written in C, information on how to use OpenSSL with Perl, Python and PHP is also included. OpenSSL may well answer your need to protect sensitive data. If that's the case, Network Security with OpenSSL is the only guide available on the subject.

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