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Insights and Innovations in Structural Engineering, Mechanics and Computation comprises 360 papers that were presented at the Sixth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016, Cape Town, South Africa, 5-7 September 2016). The papers reflect the broad scope of the SEMC conferences, and cover a wide range of engineering structures (buildings, bridges, towers, roofs, foundations, offshore structures, tunnels, dams, vessels, vehicles and

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machinery) and engineering materials (steel, aluminium, concrete, masonry, timber, glass, polymers, composites, laminates, smart materials). Some contributions present the latest insights and new understanding on (i) the mechanics of structures and systems (dynamics, vibration, seismic response, instability, buckling, soil-structure interaction), and (ii) the mechanics of materials and fluids (elasticity, plasticity, fluid-structure interaction, flow through porous media, biomechanics, fracture, fatigue, bond, creep, shrinkage). Other contributions report on (iii) recent advances in computational modelling and testing (numerical simulations, finite-element modeling, experimental testing), and (iv) developments

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and innovations in structural engineering (planning, analysis, design, construction, assembly, maintenance, repair and retrofitting of structures). Insights and Innovations in Structural Engineering, Mechanics and Computation is particularly of interest to civil, structural, mechanical, marine and aerospace engineers.

Researchers, developers, practitioners and academics in these disciplines will find the content useful. Short versions of the papers, intended to be concise but self-contained summaries of the full papers, are collected in the book, while the full versions of the papers are on the accompanying CD.

Adopting a unique approach, this novel textbook

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integrates science and business for an inside view on the biotech industry. Peering behind the scenes, it provides a thorough analysis of the foundations of the present day industry for students and professionals alike: its history, its tools and processes, its markets and products. The authors, themselves close witnesses of the emergence of modern biotechnology from its very beginnings in the 1980s, clearly separate facts from fiction, looking behind the exaggerated claims made by start-up companies trying to attract investors. Essential reading for every student and junior researcher looking for a career in the biotech sector.

Urges governments to expand quality education for all,

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increase community access to information and communication technology, and improve cross-border scientific knowledge-sharing, in an effort to narrow the digital and "knowledge" divides between the North and South and move towards a "smart" form of sustainable human development.

Nanostructured Materials for Next-Generation Energy Storage and Conversion

Domestic Water and Sanitation

Recommended Minimum Requirements for Small Dwelling Construction

Background to SANS 10160

Energy Efficient Buildings

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Jersey Bulletin

The story of the former Polish-Jewish community (shtetl) of Luboml, Wołyń, Poland. Its Jewish population of some 4,000, dating back to the 14th century, was exterminated by the occupying German forces and local collaborators in October, 1942. Luboml was formerly known as Lyuboml, Volhynia, Russia and later Lyuboml, Volyns'ka, Ukraine. It was also know by its Yiddish name: Libivne.

The contents have been divided into sections on physical states of polymers and characterization techniques. Chapters on physical states include discussions of the rubber elastic state, the glassy state, melts and concentrated solutions, the crystalline state, and the mesomorphic state. Characterization techniques described are

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molecular spectroscopy and scattering techniques.

As urbanization progresses at a remarkable pace, policy makers and analysts come to understand and agree on key features that will make this process more efficient and inclusive, leading to gains in the welfare of citizens. Drawing on insights from economic geography and two centuries of experience in developed countries, the World Bank's World Development Report 2009: Reshaping Economic Geography emphasizes key aspects that are fundamental to ensuring an efficient rural-urban transformation. Critical among these are land, as the most important resource, and well-functioning land markets.

Regardless of the stage of urbanization, flexible and forward-looking institu- ons that help the efficient functioning of land

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markets are the bedrock of successful urbanization strategies. In particular, institutional arrangements for allocating land rights and for managing and regulating land use have significant implications for how cities deliver agglomeration economies and improve the welfare of their residents. Property rights, well-functioning land markets, and the management and servicing of land required to accommodate urban expansion and provide trunk infrastructure are all topics that arise as regions progress from incipient urbanization to medium and high density.

Toward a Sustainable Future

Boat Plans at Mystic Seaport

Exploring the Boundaries of Big Data

Concepts in Biotechnology

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*Design, User Experience, and Usability: Understanding Users
and Contexts*

Uniting of Europe

The three-volume set LNCS 10288, 10289, and 10290 constitutes the proceedings of the 6th International Conference on Design, User Experience, and Usability, DUXU 2017, held as part of the 19th International Conference on Human-Computer Interaction, HCII 2017, in Vancouver, BC, Canada, in July 2017, jointly with 14 other thematically similar conferences. The total of 1228 papers presented at the HCII 2017 conferences were carefully reviewed and selected from 4340 submissions.

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These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 168 contributions included in the DUXU proceedings were carefully reviewed and selected for inclusion in this three-volume set. LNCS 10288: The 56 papers included in this volume are organized in topical sections on design thinking and design philosophy; aesthetics and perception in design;

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user experience evaluation methods and tools; user centered design in the software development lifecycle; DUXU education and training. LNCS 10289: The 56 papers included in this volume are organized in topical sections on persuasive and emotional design; mobile DUXU; designing the playing experience; designing the virtual, augmented and tangible experience; wearables and fashion technology. LNCS 10290: The 56 papers included in this volume are organized in topical sections on information design; understanding the user; DUXU for children and young users; DUXU for art, culture, tourism and environment; DUXU practice and case studies.

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The 2006 Israel-Hezbollah War may well be a paradigm for twenty-first century warfare. The technically sophisticated Israel Defense Forces (IDF) were confronted by a much smaller but well-armed and highly unconventional "state within a state" opponent. Israel launched an intensive 34-minute air assault designed to essentially disarm Hezbollah; it did not. Hezbollah's interspersed within the civilian population presented major targeting problems for the IDF, setting up condemnation of Israel's "over-reaction" in the international press. Airpower became the big loser in the press and after-action reports. *Divining Victory* examines

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the decisions, the effects, and the lessons learned for those who must confront similar enemies. Originally published in 2007. Recommended on the 2008 Royal Air Force Chief of the Air Staffs' reading list.

How To Weld the easy way is a clear, concise and essential book for all metalworking enthusiasts who want to get started or improve their welding skills. How To Weld the easy way provides a simple and easy-to-follow introduction to the full range of techniques needed when working with metal of various kinds. Detailed information about metalworking tools, materials and equipment, together with photographs and detailed step-by-step

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instructions, will enable you to successfully cut, bend and join metal using the most popular techniques and processes used by professionals worldwide. These include soldering, brazing, brazewelding, gas welding, arc welding and MIG welding. The most common finishing techniques are also covered. These include fairly straightforward painting as well as special effects you can do yourself, as well as specialist coatings and finishes such as galvanising and powder or epoxy coating.

Whether you want to make practical items like burglar bars or garden gates, produce your own metal furniture or simply repair existing metalwork, this book will show you

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how to plan and execute the projects you choose with ease. Along with a host of good ideas, there are more than ten sample projects of varying complexity you can make, simply by following step- by-step photographic instructions. A list of materials is given for each project, and essential tools and equipment are listed. These projects are quite varied, and they include several that are suitable for complete amateurs, as well as others that require more advanced skills. You can start working on the simpler designs with no prior experience; perhaps make a handy hanger or barbecue tongs, and then move on to the drinks stand or candle stick project. Once you are feeling more

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confident, you will be able to tackle burglar bars, gates and furniture with ease, and you can then move onto more complicated projects such as fireplaces and built-in barbecues.

Proceedings of the Sixth International Conference on
Structural Engineering, Mechanics and Computation,
Cape Town, South Africa, 5-7 September 2016

FCS Drawings, Setting out, Quantities & Costing L4

Introduction to Structural Fire Engineering

To the Gold Coast for Gold - A Personal Narrative -

The Law of South Africa

Hydrogen Production, Storage, and Utilization

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Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork.

Salt tectonics is the study of how and why salt structures evolve and the three-dimensional forms that result. A fascinating branch of geology in itself, salt tectonics is also vitally important to the petroleum industry. Covering the entire scale from the microscopic to the continental, this textbook is an unrivalled consolidation of all topics related to salt tectonics: evaporite deposition and flow

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salt structures, salt systems, and practical applications. Coverage of the principles of salt tectonics is supported by more than 600 color illustrations, including 200 seismic images captured by state-of-the-art geophysical techniques and tectonic models from the Applied Geodynamics Laboratory at the University of Texas, Austin. These combine to provide a cohesive and wide-ranging insight into this extremely visual subject. This is the definitive practical handbook for professional geologists and geophysicists in the petroleum industry, an invaluable textbook for graduate students, and a reference textbook for researchers in various geoscience fields.

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This book provides practising SA structural design engineers with the background to and justification for changes proposed in the new SANS 10160 standard.

6th International Conference, DUXU 2017, Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9-14, 2017, Proceedings, Part III

Airpower in the Israel-Hezbollah War

Handbook of Digital Face Manipulation and Detection

Insights and Innovations in Structural Engineering,

Mechanics and Computation

Lubomir

Beyond Earth

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Volume 1 of a 4-volume series is a concise, authoritative and an eminently readable and enjoyable experience related to hydrogen production, storage and usage for portable and stationary power. Although the major focus is on hydrogen, discussion of fossil fuels and nuclear power is also presented where appropriate. This monograph is written by recognized experts in the field, and is both timely and appropriate as this decade will see application of hydrogen as an energy carrier, for example in transportation sector. The world's reliance on fossil fuels is due to

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the ever growing need for energy to sustain life and on-going progress; however exploitation also brings consequences such as emission of carbon, nitrogen and sulfur dioxides into the atmosphere. The collective influence of these photochemical gases is production of acid rain and an alternation of global temperatures, leading to record high temperatures in many parts of the world. The fossil fuel is unsustainable and thus there is a critical need for alternative sustainable energy resources. One universal energy carrier is hydrogen, which is the focus of this volume. This

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book is suitable for those who work in the energy field as technical experts, including engineers and scientists, as well as managers, policy and decision-makers, environmentalists and consultants.

Students and practitioners such as lectures, teachers, legislators and their aids in the field of energy will find this book invaluable and a practical handbook or guide in the field of sustainable energy with emphasis on hydrogen as an energy carrier.

This work has been selected by scholars as being culturally important and is part of the knowledge

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base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements

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with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

A practical guide to building or renovating your own home. Updated to include recent changes in building legislation, new building techniques and contemporary design trends.

Community Paralegals and the Pursuit of Justice
Political, Social, and Economic Forces, 1950-1957

International Energy Outlook

Report of the Department of Commerce, Building

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Code Committee

Basis of structural design and actions for buildings and industrial structures

A Guide to Design and Construction

This book provides a platform for scientists and engineers to comprehend the technologies of solar wind hybrid renewable energy systems and their applications. It describes the thermodynamic analysis of wind energy systems, and advanced monitoring, modeling, simulation, and control of wind turbines. Based on recent hybrid technologies considering wind and solar energy systems, this book also covers modeling, design, and

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optimization of wind solar energy systems in conjunction with grid-connected distribution energy management systems comprising wind photovoltaic (PV) models. In addition, solar thermochemical fuel generation topology and evaluation of PV wind hybrid energy for a small island are also included in this book. Since energy storage plays a vital role in renewable energy systems, another salient part of this book addresses the methodology for sizing hybrid battery-backed power generation systems in off-grid connected locations. Furthermore, the book proposes solutions for sustainable rural development via passive solar housing schemes, and the impacts of renewable energies in general,

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considering social, economic, and environmental factors. Because this book proposes solutions based on recent challenges in the area of hybrid renewable technologies, it is hoped that it will serve as a useful reference to readers who would like to be acquainted with new strategies of control and advanced technology regarding wind solar hybrid systems

This open access book provides the first comprehensive collection of studies dealing with the hot topic of digital face manipulation such as DeepFakes, Face Morphing, or Reenactment. It combines the research fields of biometrics and media forensics including contributions from academia and industry. Appealing to a broad

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readership, introductory chapters provide a comprehensive overview of the topic, which address readers wishing to gain a brief overview of the state-of-the-art. Subsequent chapters, which delve deeper into various research challenges, are oriented towards advanced readers. Moreover, the book provides a good starting point for young researchers as well as a reference guide pointing at further literature. Hence, the primary readership is academic institutions and industry currently involved in digital face manipulation and detection. The book could easily be used as a recommended text for courses in image processing, machine learning, media forensics, biometrics, and the

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general security area.

Universal Design is the term used to describe the design of products and environments which can be used by all people, to the greatest extent possible, without the need for adaptation or specialized design. It is not a euphemism for ‘ designs for people with a disability ’ , but really is about designing to include all people, regardless of their age, ability, cultural background or status in life. However it remains the case that many designers and developers fail to understand the need for universal design and lack the skills needed to implement it. This book presents papers from the 3rd International Conference on Universal Design (UD 2016), held in

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York, UK, in August 2016. The theme of the conference was: learning from the past, designing for the future, and it aimed to bring together policymakers, practitioners and researchers interested in the different strands of universal design to exchange ideas and best practice, review some of the developments in universal design from the last 20 years, and formulate strategies for taking the concept of universal design forward into the future. The book is divided into two sections. Section 1: About Universal Design, and Section 2: Universal Design In Practice. The book will be of interest to all those whose work involves design, from the built environment and tangible products to communication, services and

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systems.

Wind Solar Hybrid Renewable Energy System

Philadelphia and Its Manufactures

Divining Victory

Principles and Practice

The Jersey Bulletin and Dairy World

Physical Properties of Polymers

***Comprising a collection of papers from
the 4th International Conference on
Environmental and Economic Impact on
Sustainable Development, the research
studies included in this book consider***

the impact of economic constraints on the environment, taking into account the social aspects as well as the over-use of natural resources. The papers examine issues related to whether some forms of development are compatible with environmental protection, particularly in cases of possible serious contamination and toxicity. Uncontrolled development can result in damage to the environment in terms of the release of toxic substances and hazardous waste.

Addressing problems of great importance, this book examines more constructive and progressive approaches to ensure sustainability. A major motivation is to learn from past failure, to avoid repeating similar mistakes, while attempting to prevent emerging threats to environmental and ecological systems. Fundamental to these concepts are the analysis of the inherent risk and the development of appropriate strategies.

This is a completely updated and revised version of a monograph published in 2002 by the NASA History Office under the original title Deep Space Chronicle: A Chronology of Deep Space and Planetary Probes, 1958-2000. This new edition not only adds all events in robotic deep space exploration after 2000 and up to the end of 2016, but it also completely corrects and updates all accounts of missions from 1958 to 2000--Provided by publisher.

***Independent, scientifically based,
integrated, policy-relevant analysis of
current and emerging energy issues for
specialists and policymakers in
academia, industry, government.***

History of the Royal Regiment of Artillery

Owner Building in South Africa

From DeepFakes to Morphing Attacks

***Building Construction & Graphic
Standards***

Global Energy Assessment

Legacies of slavery

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The University of Notre Dame Press is pleased to bring Ernst Haas's classic work on European integration, *The Uniting of Europe*, back into print. First published in 1958 and last printed in 1968, this seminal volume is the starting point for anyone interested in the pre-history of the European Union. Haas uses the European Coal and Steel Community (ECSC) as a case study of the community formation processes that occur across traditional national and state boundaries. Haas points to the ECSC as an example of an organization with the "power to redirect the loyalties and expectations of political

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actors." In this pathbreaking book Haas contends that, based on his observations of the actual integration process, the idea of a "united Europe" took root in the years immediately following World War II. His careful and rigorous analysis tracks the development of the ECSC, including, in his 1968 preface, a discussion of the eventual loss of the individual identity of the ECSC through its absorption into the new European Community. Featuring a new introduction by Haas analyzing the impact of his book over time, as well as an updated bibliography, *The Uniting of Europe* is a must-have for

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political scientists and historians of modern and contemporary Europe. This book is the inaugural volume of Notre Dame's new Contemporary European Politics and Society Series.

The United Nations estimates that four billion people worldwide live outside the protection of the law. These people can be driven from their land, intimidated by violence, and excluded from society. This book is about community paralegals - sometimes called barefoot lawyers - who demystify law and empower people to advocate for themselves. These paralegals date back to

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1950s South Africa and are active today in many countries, but their role has largely been ignored by researchers. *Community Paralegals and the Pursuit of Justice* is the first book on the subject. Focusing on paralegal movements in six countries, Vivek Maru, Varun Gauri, and their coauthors have collected rich, vivid stories of paralegals helping people to take on injustice, from domestic violence to unlawful mining to denial of wages. From these stories emerges evidence of what works and how. The insights in the book will be of immense value in the global fight for universal justice. This

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title is also available as Open Access.

This new edition includes better values of properties already reported, properties not reported in time for the earlier edition, and entirely new properties becoming important for modern polymer applications. It also contains 217 total polymers, 20 of which are all-new, particularly in high-technology areas such as electrical conductivity, non-linear optical properties, microlithography, nanophotonics, and electroluminescences. Examples of specific polymers include silsesquoxane ladder polymers, 'foldamer' self-assembling polymers, and block

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copolymers that phase separate into 'mushrooms', ellipsoids, and sheets with on surface radically different in properties from the other.

A Chronicle of Deep Space Exploration,
1958-2016

Polymer Data Handbook

Salt Tectonics

History, Science and Business

Towards Knowledge Societies

Universal Design 2016: Learning from the
Past, Designing for the Future

Though the exact nature and delineation of Big Data is still unclear, it seems likely that Big Data will have

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an enormous impact on our daily lives. 'Exploring the Boundaries of Big Data' serves as preparatory work for The Netherlands Scientific Council for Government Policy's advice to the Dutch government, which has asked the Council to address questions regarding Big Data, security and privacy. It is divided into five parts, each part engaging with a different perspective on Big Data: the technical, empirical, legal, regulatory and international perspective.

Standards of Unemployment Insurance
Proceedings of the 3rd International Conference on
Universal Design (UD 2016), York, United Kingdom,

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August 21 - 24, 2016

The Memorial Book of a Vanished Shtetl

Urban Land Markets

Improving Land Management for Successful

Urbanization

Concrete Industrial Ground Floors