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Machine learning methods such as neural networks, non-linear dimensionality reduction techniques, random forests and others meet in this research topic with biomolecular simulations. The authors of eight articles applied these methods to analyze simulation results, accelerate simulations or to make molecular mechanics force fields more accurate.

De zoektocht naar perfectie is vermoeiend en meedogenloos. We worden constant opgejaagd door sociale verwachtingen die ons leren dat imperfect zijn synoniem is aan niet goed genoeg zijn. Overall wordt ons verteld wie, wat en hoe we moeten zijn. Hierdoor laten we niet zien waar we mee worstelen en beschermen we onszelf tegen schaamte, oordelen, kritiek en verwijten door te doen alsof we het allemaal perfect voor elkaar hebben. Op basis van haar jarenlange onderzoek en honderden interviews komt Brené Brown in *Gelukkig ben ik niet de enige* met een belangrijke waarheid: we zijn juist met elkaar verbonden door onze onvolmaaktheden. Kwetsbaarheid is geen zwakte, maar een reminder om ons hart en verstand open te houden voor de realiteit dat we allemaal in hetzelfde schuitje zitten.

Vols. for 1970-71 includes manufacturers catalogs.

The fourth edition of *The Immunoassay Handbook* provides an excellent, thoroughly updated guide to the science, technology and applications of ELISA and other immunoassays, including a wealth of practical advice. It encompasses a wide range of methods and gives an insight into the latest developments and applications in clinical and veterinary practice and in pharmaceutical and life science research. Highly illustrated and clearly written, this award-winning reference work provides an excellent guide to this fast-growing field. Revised and extensively updated, with over 30% new material and 77 chapters, it reveals the underlying common principles and simplifies an abundance of innovation. *The Immunoassay Handbook* reviews a wide range of topics, now including lateral flow, microsphere multiplex assays, immunohistochemistry, practical ELISA development, assay interferences, pharmaceutical applications, qualitative immunoassays, antibody detection and lab-on-a-chip. This handbook is a must-read for all who use immunoassay as a tool, including clinicians, clinical and veterinary chemists, biochemists, food technologists, environmental scientists, and students and researchers in medicine, immunology and proteomics. It is an essential reference for the immunoassay industry. Provides an excellent revised guide to this commercially highly successful technology in diagnostics and research, from consumer home pregnancy kits to AIDS testing. www.immunoassayhandbook.com is a great resource that we put a lot of effort into. The content is designed to encourage purchases of single chapters or the entire book. David Wild is a healthcare industry veteran, with experience in biotechnology, pharmaceuticals, medical devices and immunodiagnosics, which remains his passion. He worked for Amersham, Eastman-Kodak, Johnson & Johnson, and Bristol-Myers Squibb, and consulted for diagnostics and biotechnology companies. He led research and development programs, design and construction of chemical and biotechnology plants, and integration of acquired companies. Director-level positions included Research and Development, Design Engineering, Operations and Strategy, for billion dollar businesses. He retired from full-time work in 2012 to focus on his role as Editor of *The Immunoassay Handbook*, and

advises on product development, manufacturing and marketing. Provides a unique mix of theory, practical advice and applications, with numerous examples Offers explanations of technologies under development and practical insider tips that are sometimes omitted from scientific papers Includes a comprehensive troubleshooting guide, useful for solving problems and improving assay performancee Provides valuable chapter updates, now available on www.immunoassayhandbook.com

Free Radicals in Biology and Medicine has become a classic text in the field of free radical and antioxidant research. Now in its fifth edition, the book has been comprehensively rewritten and updated whilst maintaining the clarity of its predecessors. Two new chapters discuss 'in vivo' and 'dietary' antioxidants, the first emphasising the role of peroxiredoxins and integrated defence mechanisms which allow useful roles for ROS, and the second containing new information on the role of fruits, vegetables, and vitamins in health and disease. This new edition also contains expanded coverage of the mechanisms of oxidative damage to lipids, DNA, and proteins (and the repair of such damage), and the roles played by reactive species in signal transduction, cell survival, death, human reproduction, defence mechanisms of animals and plants against pathogens, and other important biological events. The methodologies available to measure reactive species and oxidative damage (and their potential pitfalls) have been fully updated, as have the topics of phagocyte ROS production, NADPH oxidase enzymes, and toxicology. There is a detailed and critical evaluation of the role of free radicals and other reactive species in human diseases, especially cancer, cardiovascular, chronic inflammatory and neurodegenerative diseases. New aspects of ageing are discussed in the context of the free radical theory of ageing. This book is recommended as a comprehensive introduction to the field for students, educators, clinicians, and researchers. It will also be an invaluable companion to all those interested in the role of free radicals in the life and biomedical sciences.

This book presents a new emerging concept of "Integrative Structural Biology". It covers current trends of the molecular and cellular structural biology, providing new methods to observe, validate, and keep the structural models of the large cellular machines with recent scientific results. Structures of very large macromolecular machines in cells are being determined by combining observations from complementary experimental methods. Thus, this volume presents the each methods such as X-ray crystallography, NMR spectroscopy, 3DEM, small-angle scattering (SAS), FRET, crosslinking, and enables the readers to understand the hybrid methods. This book discusses how those integrative models should be represented, validated and archived. A unique highlight of this book is discussion of the data validation and archive, which are big problems in this filed along with the progress of this field. The researchers in biology will be interested in this book as a guide book for learning the current structure biology, but also those in structure biology may use this book as a comprehensive reference to cover broad topics.

Brené Brown beschrijft in haar boek wat het betekent om je kwetsbaar op te stellen in een wereld die gericht is op perfectionisme en het nemen van risico's zonder dat succes gegarandeerd is. Of het nu om werk, relaties of opvoeding gaat: het is eng en moeilijk om je kwetsbaar op te stellen, maar het is nog veel moeilijker om het niet te doen en jezelf af te blijven vragen: wat als ik het wel had geprobeerd? We verwachten van onszelf en van anderen dat we elke dag de schijn ophouden om anderen te laten zien hoe goed we alles voor elkaar hebben. Kwetsbaarheid is een emotie waar bijna niemand zich prettig bij voelt. We associëren het met onzekerheid en risico's. Toch zegt Brené Brown dat juist kwetsbaarheid de basis is van alle mooie dingen in het leven als liefde, vertrouwen en vreugde. Ze moedigt de lezer in

De kracht van kwetsbaarheid aan om perfectionisme te laten varen, kwetsbaarheid en te omarmen en uitdagingen aan te gaan.

Electrochromic materials can change their properties under the influence of an electrical voltage or current. Different classes of materials show this behavior such as transition metal oxides, conjugated polymers, metal-coordinated complexes and organic molecules. As the color change is persistent, the electric field needs only to be applied to initiate the switching, allowing for applications such as low-energy consumption displays, light-adapting mirrors in the automobile industry and smart windows for which the amount of transmitted light and heat can be controlled. The first part of this book describes the different classes and processing techniques of electrochromic materials. The second part highlights nanostructured electrochromic materials and device fabrication, and the third part focuses on the applications such as smart windows, adaptive camouflage, biomimicry, wearable displays and fashion. The last part rounds off the book by device case studies and environmental impact issues.

Brené Brown heeft de afgelopen twintig jaar onderzoek gedaan naar de emoties en ervaringen die betekenis geven aan ons leven, en werkte de afgelopen zeven jaar nauw samen met leiders en cultuurveranderaars over de hele wereld. Ze ontdekte dat allerlei bedrijfstakken, van kleine start-ups tot Fortune 50-bedrijven, met dezelfde vraag worstelen: 'Hoe ontwikkelen we moediger leiders en hoe verankeren we moed en durf in onze bedrijfscultuur?' In dit nieuwe boek combineert Brené haar onderzoeksresultaten met persoonlijke verhalen en voorbeelden om deze vraag te beantwoorden. Durf te leiden gaat over echt leiderschap: vanuit het hart en vol moed.

Composites materials have aroused a great interest over the last few decades. Several applications of fibrous composites, functionally graded materials, laminated composites, nanostructured reinforcements, morphing structures, can be found in many engineering fields, such as aerospace, mechanical, naval and civil engineering. The necessity of lightweight structures, smart and adaptive systems, high-level strength, have led both the academic research and the manufacturing development to a recurring employment of these materials. Many journal papers and technical notes have been published extensively over the last seventy years in international scientific journals of different engineering fields. For this reason, the establishment of this second edition of Mechanics of Composites International Conference has appeared appropriate to continue what has been begun during the first edition occurred in 2014 at Stony Brook University (USA). MECHCOMP 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. As a proof of this event, which has taken place in Porto (Portugal), selected plenary and key-note lectures have been collected in the present book.

In *De stof van het denken* beschrijft Steven Pinker op een volkomen nieuwe manier hoe de menselijke geest werkt. Onze geest is tot stand gekomen in een tijd waarin nagedacht moest worden over stenen, planten en gevaarlijke beesten. Inmiddels is diezelfde geest in staat natuurkunde te ontrafelen en democratie te bedenken. Hoe heeft de geest zich zo kunnen aanpassen? Het antwoord is te achterhalen, aldus Pinker, via taal. Hij onderzoekt onze gesprekken, grappen, conflicten en schetst zo een beeld van de gedachten en emoties die onze mentale levens vormgeven. Waarom ontstaan taboes? Waarom zijn seks en religie daarmee zo rijkelijk bedeed? Waarom wordt ons taalgebruik zo indirect wanneer we onderhandelen, verleiden of proberen iemand om te kopen? De laatste twee Amerikaanse presidenten zijn in de problemen gekomen vanwege specifieke woorden. Wat is de rol van taal in de conflicten in het Midden-Oosten? Is niet elke strijd op een bepaald niveau ook een taalstrijd? Steven Pinker bekleedt de Johnstone leerstoel psychologie aan Harvard. Hij is de auteur van verschillende bestsellers: *Het taalinstinct* (1994), *Hoe de menselijke geest werkt* (1998) en *Het onbeschreven blad* (2003). Het unieke van Steven Pinker is dat hij zijn

antwoorden op veel terreinen zoekt: psychologie, taalkunde, evolutiebiologie - en dat maakt hem ook meteen iemand die vanuit veel hoeken op debat en controversen kan rekenen. This book provides a comprehensive overview of engineering nanostructures mediated by functional polymers in combination with optimal synthesis and processing techniques. The focus is on polymer-engineered nanostructures for advanced energy applications. It discusses a variety of polymers that function as precursors, templates, nano-reactors, surfactants, stabilizers, modifiers, dopants, and spacers for directing self-assembly, assisting organization, and templating growth of numerous diverse nanostructures. It also presents a wide range of polymer processing techniques that enable the efficient design and optimal fabrication of nanostructured polymers, inorganics, and organic-inorganic nanocomposites using in-situ hybridization and/or ex-situ recombination methodologies. Combining state-of-the-art knowledge from polymer-guided fabrication of advanced nanostructures and their unique properties, it especially highlights the new, cutting-edge breakthroughs, future horizons, and insights into such nanostructured materials in applications such as photovoltaics, fuel cells, thermoelectrics, piezoelectrics, ferroelectrics, batteries, supercapacitors, photocatalysis, and hydrogen generation and storage. It offers an instructive and approachable guide to polymer-engineered nanostructures for further development of advanced energy materials to meet ever-increasing global energy demands. Interdisciplinary and broad perspectives from internationally respected contributors ensure this book serves as a valuable reference source for scientists, students, and engineers working in polymer science, renewable energy materials, materials engineering, chemistry, physics, surface/interface science, and nanotechnology. It is also suitable as a textbook for universities, institutes, and industrial institutions.

Monthly, with annual cumulation. Published conference literature useful both as current awareness and retrospective tools that allow searching by authors of individual papers as well as by editors. Includes proceedings in all formats, i.e., books, reports, journal issues, etc. Complete bibliographical information for each conference proceedings appears in section titled Contents of proceedings, with accompanying category, permuted subject, sponsor, author/editor, meeting location, and corporate indexes. Contains abbreviations used in organizational and geographical names.

Wordt een beschaving altijd 'beter'? Hoe worden bacteriën resistent tegen antibiotica? Hoeveel mensen kan de wereld aan? Kan radioactief afval gerecycled worden? Wat komt er na democratie? Waarom kan massa niet negatief zijn? De 21ste eeuw is de eeuw van de wetenschap. Op allerlei gebieden - gentechologie, gezondheidszorg, milieu, kunstmatige intelligentie - staan ons grote doorbraken te wachten. Toen Beatrice de Graaf en Alexander Rinnooy Kan, ambassadeurs van de Nationale Wetenschapsagenda, alle Nederlanders in 2015 opriepen om alles wat ze altijd al eens aan 'de wetenschap' hadden willen vragen in te sturen, had niemand kunnen vermoeden dat Nederland zo massaal aan deze oproep gehoor zou geven. Er kwamen meer dan 12.000 vragen binnen. In Hoe zwaar is licht beantwoorden de beste wetenschappers uit Nederland - jong, oud, gevestigd, aanstormend, alfa, bèta, gamma - meer dan honderd belangrijkste en meest sprekende vragen aan de wetenschap. Voorzien van schitterend beeldmateriaal biedt dit bijzondere boek een unieke en onmisbare staalkaart van de stand van zaken van de wetenschap. Met bijdragen van onder anderen: Hans Clevers | José van Dijck | Robbert Dijkgraaf | Louise O. Fresco | Gerard 't Hooft | Joep Leerssen | Andrea B. Maier | Erik Scherder | Iris Sommer | Rob de Wijk en vele anderen. Vols. for 1964- have guides and journal lists.

This book focuses on the two-phase flow problems relevant in the automotive and power generation sectors. It includes fundamental studies on liquid-gas two-phase interactions, nucleate and film boiling, condensation, cavitation, suspension flows as well as the latest developments in the field of two-phase problems pertaining to power

generation systems. It also discusses the latest analytical, numerical and experimental techniques for investigating the role of two-phase flows in performance analysis of devices like combustion engines, gas turbines, nuclear reactors and fuel cells. The wide scope of applications of this topic makes this book of interest to researchers and professionals alike.

The Handbook of Clinical Neurology volumes on Traumatic Brain Injury (TBI) provide the reader with an updated review of emerging approaches to TBI research, clinical management and patient rehabilitation. Chapters in Part II offer coverage of clinical sequelae and long-term outcome, brain plasticity and long-term risks, and clinical trials. Contemporary investigations on blast injury and chronic traumatic encephalopathy are presented, making this state-of-the-art volume a must have for clinicians and researchers concerned with the clinical management, or investigation, of TBI.

Internationally renowned scientists describe cutting edge research on the neurobiological response to traumatic brain injury, including complications to movement, mood, cognition and more Explores cellular/molecular and genetic factors contributing to plasticity Presents up-to-date expert recommendation for clinical trials and issues related to effective rehabilitation New findings are included on the long-term effects of traumatic brain injury that may impact aging and lead to dementia

Significantly updated in reference to the latest construction standards and new building types Sustainable design integrated into chapters throughout Over half of the entire book has now been updated since 2015 Over 100,000 copies sold to successive generations of architects and designers This book belongs in every design office. The Metric Handbook is the major handbook of planning and design data for architects and architecture students. Covering basic design data for all the major building types it is the ideal starting point for any project. For each building type, the book gives the basic design requirements and all the principal dimensional data, and succinct guidance on how to use the information and what regulations the designer needs to be aware of. As well as buildings, the Metric Handbook deals with broader aspects of design such as materials, acoustics and lighting, and general design data on human dimensions and space requirements. The Metric Handbook is the unique reference for solving everyday planning problems.

Together with Consulting Editor, Dr. Helen Bucher, Guest Editors Dr. Carlos Del Rio and Dr. Sandra Springer have put together an important monograph that addresses infections in IV drug users. They have selected top experts to contribute clinical reviews for infectious disease physicians. Articles are devoted to the following topics: Medical and Surgical management of Infectious endocarditis in persons who use drugs; The Microbiology Laboratory and the Opioid epidemic; The Geography of Infectious Diseases Related to the Opioid Epidemic; Soft tissue, bone and joint infections related to illicit drug use; Management of opioid use disorder and infectious disease in the inpatient setting; Outpatient antimicrobial and OUD management in persons who use drugs; Novel approaches to antimicrobials for injection drug use associated infections; HCV treatment and reinfection risk in persons who use drugs on medication treatment for OUD: A systematic review in CJS settings; Treating opioid use disorder and related infectious diseases in the criminal justice system; Harm reduction services to prevent and treat infectious disease in persons who use drugs; Improving the management of patients with chronic opioid therapy in the outpatient setting; The Global Task Force for

Chronic Pain in People Living with HIV (PLWH): Developing a research agenda in an emerging field; and Lessons learned from the response to the HIV epidemic that can inform addressing the opioid epidemic. Readers will come away with the clinical information they need to treat and improve outcomes in these patients.

The Architect's Legal Handbook is the most widely used reference on the law for practicing architects and the established textbook on law for architectural students. Since the last edition of this book in 2010, the legal landscape in which architecture is practised has changed significantly: the long-standing procurement model with an architect as contract administrator has been challenged by the growing popularity of design and build contracts, contract notices in place of certificates, and novation of architect's duties. The tenth edition features all the latest developments in the law which affect an architect's work, as well as providing comprehensive coverage of relevant UK law topics. Key highlights of this edition include: an overview of the legal environment, including contract, tort, and land law; analysis of the statutory framework, including planning law, health and safety, construction legislation, and building regulations in the post-Grenfell legal landscape; procurement, and the major industry construction contract forms; building dispute resolution, including litigation, arbitration, adjudication, and mediation; key fields for the architect in practice, including architects' registration and professional conduct, contracts with clients and collateral warranties, liability in negligence, and insurance; entirely new chapters on various standard form contracts, architects' responsibility for the work of others, disciplinary proceedings, and data protection; tables of cases, legislation, statutes, and statutory instruments give a full overview of references cited in the text. The Architect's Legal Handbook is the essential legal reference work for all architects and students of architecture.

Brené Brown beschrijft in *De moed van imperfectie* hoe moed, compassie en verbondenheid een belangrijke plek in je leven kunnen krijgen. Op basis van haar jarenlange studie kwam ze tot tien stellingen over een `bezield leven : leven vanuit het gevoel dat je de moeite waard bent. Op haar eigen, eerlijke, warme en grappige manier moedigt ze de lezer aan om perfectionisme te laten varen, stress als leefstijl los te laten, te vertrouwen op intuïtie en creativiteit de ruimte te geven. Dit boek gaat over de levenslange reis van `Wat zullen anderen wel niet denken? naar `Ik ben goed genoeg . `Brené Brown pakt moedig alle duistere emoties aan die de weg naar een voller leven belemmeren. Lees dit boek en wordt aangestoken door haar moed. Daniel H. Pink 'Mijn nieuwe Super Soulmate. Oprah Winfrey

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