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This book constitutes the refereed proceedings of the 6th International Conference on Model and Data Engineering, MEDI 2016, held in Almería, Spain, in September 2016. The 17 full papers and 10 short papers presented together with 2 invited talks were carefully reviewed and selected from 62 submissions. The papers range on a wide spectrum covering fundamental contributions, applications and tool developments and improvements in model and data engineering activities. Each lesson plan contains everything you will need to teach the course including Framework Objectives & Medium Term Planning references, resources needed, starter and plenary ideas and links to Homework activities. The pack also features mappings to the Framework for teaching mathematics and the Medium Term Plan, National Curriculum/Framework planning grids. The series of IFAC Symposia on

Analysis, Design and Evaluation of Man-Machine Systems provides the ideal forum for leading researchers and practitioners who work in the field to discuss and evaluate the latest research and developments. This publication contains the papers presented at the 6th IFAC Symposium in the series which was held in Cambridge, Massachusetts, USA. Chemical Modelling: Applications and Theory comprises critical literature reviews of all aspects of molecular modelling. Molecular modelling in this context refers to modelling the structure, properties and reactions of atoms, molecules and materials. The tenth volume of the series brings Jan Ole Joswig to the editorial team, and a wealth of new reviews spanning several disciplines. For example, materials scientists will benefit from the review on Inverse Molecular Design for Materials and Modelling PAHs will be of interest to environmental scientists. Other reviews have detailed focus on modelling, such as Reaction Kinetics and Accurate Modelling of Electric Properties of Polyatomic molecules from the first principles. Each chapter provides a selective review of recent literature, incorporating sufficient historical perspective for the non-specialist to gain an understanding. With chemical modelling covering such a wide range of subjects, this Specialist Periodical Report serves as the first port of call to any chemist, biochemist, materials scientist or molecular physicist needing to acquaint themselves with major developments in the area. The internet of medical things provides significant advantages for the well-being of society by increasing the quality of life and reducing medical expenses. An important step towards a smart healthcare system is to utilize the potential of existing technologies in order to deliver the best services to users and improve their circumstances. With the help of internet of medical things technologies, self-care and early diagnosis are influential services in strengthening the healthcare ecosystem, especially those which utilize remote monitoring systems. The Internet of Medical Things (IoMT) and Telemedicine Frameworks and Applications focuses on the role of artificial intelligence, the internet of

medical things, and telemedicine as well as the advantages and challenges that can occur from the integration of these technologies. The book also evolves methodologies to develop frameworks for the integration of the internet of medical things and telemedicine. Covering topics such as remote healthcare, medical imaging, and data science, this reference work is ideal for researchers, academicians, scholars, practitioners, instructors, and students. Offers practitioners, researchers, and academicians with fundamental principles of cooperative communication. This book provides readers diverse findings and exposes underlying issues in the analysis, design, and optimization of wireless systems. HCI Models, Theories, and Frameworks provides a thorough pedagogical survey of the science of Human-Computer Interaction (HCI). HCI spans many disciplines and professions, including anthropology, cognitive psychology, computer graphics, graphical design, human factors engineering, interaction design, sociology, and software engineering. While many books and courses now address HCI technology and application areas, none has addressed HCI's multidisciplinary foundations with much scope or depth. This text fills a huge void in the university education and training of HCI students as well as in the lifelong learning and professional development of HCI practitioners. Contributors are leading researchers in the field of HCI. If you teach a second course in HCI, you should consider this book. This book provides a comprehensive understanding of the HCI concepts and methods in use today, presenting enough comparative detail to make primary sources more accessible. Chapters are formatted to facilitate comparisons among the various HCI models. Each chapter focuses on a different level of scientific analysis or approach, but all in an identical format, facilitating comparison and contrast of the various HCI models. Each approach is described in terms of its roots, motivation, and type of HCI problems it typically addresses. The approach is then compared with its nearest neighbors, illustrated in a paradigmatic application, and analyzed in terms of its future.

This book is essential reading for professionals, educators, and students in HCI who want to gain a better understanding of the theoretical bases of HCI, and who will make use of a good background, refresher, reference to the field and/or index to the literature. Contributors are leading researchers in the field of Human-Computer Interaction

Fills a major gap in current literature about the rich scientific foundations of HCI  
Provides a thorough pedagogical survey of the science of HCI

Substance misuse and addictions are a public health issue. They affect the well-being of each community and nation as a whole. It is, therefore, necessary to identify, educate, and treat individuals who are addicted to substances. Policies and procedures go hand-in-hand with public health education and safety. The science behind the public health issues of one drug may be applicable to other drugs as well. However, marshalling all of the aforementioned information into a single source is somewhat difficult due to the wide array of material. The Editors address this by compiling the research in this single reference work that serves as a "one-stop-shopping" approach to everything readers need to know about the scientific basis of public health and addictions and agents of misuse. Apart from active agents that have a plant or chemical basis, there is a need to consider that there are other forms of addiction which may have common modes of causality or prevention. These include food addiction, gaming, gambling, and other non-drug addictions. These types of addiction may be related to the addiction of drugs. The Handbook of Substance Misuse and Addictions: From Biology to Public Health offers a holistic understanding of the relationship between public health and substance misuse. The text provides a common platform upon which other forms of addiction or substance misuse can be understood and treated. Addiction processes involve understanding the biological processes as well as behavior, psychology, sociology, and public health, all of which are interlinked. This Handbook is a useful reference for lecturers, students, researchers, practitioners, and other professionals in public

health, addiction science, epidemiology, health education, health promotion, and health sciences. Educational technologies are vastly becoming a common-place entity in classrooms as they provide more options and support for teachers and students. However, many teachers are finding these technologies difficult to use as they were never fully trained on how to utilize it or have received little instruction on how to effectively apply it in the classroom. Technological Pedagogical Content Knowledge (TPACK) Framework for K-12 Teacher Preparation: Emerging Research and Opportunities features contemporary insights into a multi-year research effort that concluded with the design and development of an online TPACK learning trajectory. Highlighting how this development impacts the design of professional development coursework for educators, this publication is a critical work for in-service teachers, researchers, and online course developers. #1 NEW YORK TIMES BEST SELLER • At last, a book that shows you how to build—design—a life you can thrive in, at any age or stage Designers create worlds and solve problems using design thinking. Look around your office or home—at the tablet or smartphone you may be holding or the chair you are sitting in. Everything in our lives was designed by someone. And every design starts with a problem that a designer or team of designers seeks to solve. In this book, Bill Burnett and Dave Evans show us how design thinking can help us create a life that is both meaningful and fulfilling, regardless of who or where we are, what we do or have done for a living, or how young or old we are. The same design thinking responsible for amazing technology, products, and spaces can be used to design and build your career and your life, a life of fulfillment and joy, constantly creative and productive, one that always holds the possibility of surprise. METAL-ORGANIC FRAMEWORKS WITH HETEROGENEOUS STRUCTURES A unique book that sheds light on Metal-Organic Frameworks complex systems that often display behaviors that surprise and cannot be easily described. In this

book, MOF-based heterostructures technology with key characteristics is completely analyzed and the current state-of-the-art is discussed. The authors focus on the complex heterostructures promoted by MOFs with advantage of their recent new advances for various applications with particular emphasis on their design. As an extension of the design and synthesis, the shaping technology of heterostructure MOFs is also of great significance to the future practical applications in industry (adsorption/desorption, gas storage, catalysis, conductivity, optical activity) of this class of complex porous materials. As this unique book covers all of the aspects of complexity in MOFs with heterogeneous structures, it serves as an essential reference to the concepts of introducing complexity to designing the future new platforms of materials with advanced and superior properties. This important compact book provides the reader with: The principal aspects of heterogeneity that produce complexity in MOFs, their effects in the structure chemistry, performance and applications The effects of complexities on the structure of metal-organic frameworks The roles of complexities on metal-organic frameworks applications Explanation of synthesis strategies of the complex heterostructure MOFs. Audience This book will be beneficial for chemists, materials engineers, advanced postgraduate and graduate students, researchers and specialists who are working in the area of materials design and their chemistry, porous crystalline materials, coordination polymers, hybrid and functional materials, as well as industry professionals, such as those working on selective catalysis and adsorption-separation, optics, gas capture, processes of biological and pharmaceutical. This text discusses the synthesis, characterization, and application of metal-organic frameworks (MOFs) for the purpose of adsorbing gases. It provides details on the fundamentals of thermodynamics, mass transfer, and diffusion that are commonly required when evaluating MOF materials for gas separation and storage applications and includes a discussion of molecular simulation tools needed to examine gas

adsorption in MOFs. Additionally, the work presents techniques that can be used to characterize MOFs after gas adsorption has occurred and provides guidance on the water stability of these materials. Lastly, applications of MOFs are considered with a discussion of how to measure the gas storage capacity of MOFs, a discussion of how to screen MOFs for filtration applications, and a discussion of the use of MOFs to perform industrial separations, such as olefin/paraffin separations. Throughout the work, fundamental information, such as a discussion on the calculation of MOF surface area and description of adsorption phenomena in packed-beds, is balanced with a discussion of the results from research literature. Today's society is increasingly software-driven and dependent on powerful computer technology. Therefore it is important that advancements in the low-level processor hardware are made available for exploitation by a growing number of programmers of differing skill level. However, as we are approaching the end of Moore's law, hardware designers are finding new and increasingly complex ways to increase the accessible processor performance. It is getting more and more difficult to effectively target these processing resources without expert knowledge in parallelization, heterogeneous computation, communication, synchronization, and so on. To ensure that the software side can keep up, advanced programming environments and frameworks are needed to bridge the widening gap between hardware and software. One such example is the pattern-centric skeleton programming model and in particular the SkePU project. The work presented in this thesis first redesigns the SkePU framework based on modern C++ variadic template metaprogramming and state-of-the-art compiler technology. It then explores new ways to improve performance: by providing new patterns, improving the data access locality of existing ones, and using both static and dynamic knowledge about program flow. The work combines novel ideas with practical evaluation of the approach on several applications. The advancements also include the first skeleton API that allows

variadic skeletons, new data containers, and finally an approach to make skeleton programming more customizable without compromising universal portability. The student books in this series are in full-colour and designed for ease of use whilst working at a PC. They include find-it-out sections to encourage students to investigate and consider things from different angles. Due to the structural flexibility, large surface area, tailorable pore size and functional tenability, metal-organic frameworks (MOFs) can lead to materials with unique properties. This book covers the fundamental aspects of MOFs, their synthesis and modification, including their potential applications in different domains. The major focus is on applications including chemical, biosensors, catalysis, drug delivery, supercapacitors, energy storage, magnetics and their future perspectives. The volume: Covers all aspects related to metal-organic frameworks (MOFs), including characterization, modification, applications and associated challenges Illustrates designing and synthetic strategies for MOFs Describes MOFs for gas adsorption, separation and purification, and their role in heterogeneous catalysis Covers sensing of different types of noxious substances in the aqueous environment Includes concepts of molecular magnetism, tunable magnetic properties and future aspects This book is aimed at graduate students, and researchers in material science, coordination and industrial chemistry, chemical and environmental engineering and clean technologies. Metal–organic frameworks (MOFs) are porous crystalline polymers constructed by metal sites and organic building blocks. Since the discovery of MOFs in the 1990s, they have received tremendous research attention for various applications due to their high surface area, controllable morphology, tunable chemical properties, and multifunctionalities, including MOFs as precursors and self-sacrificing templates for synthesizing metal oxides, heteroatom-doped carbons, metal-atoms encapsulated carbons, and others. Thus, awareness and knowledge about MOFs and their derived nanomaterials with conceptual understanding

are essential for the advanced material community. This breakthrough new volume aims to explore down-to-earth applications in fields such as biomedical, environmental, energy, and electronics. This book provides an overview of the structural and fundamental properties, synthesis strategies, and versatile applications of MOFs and their derived nanomaterials. It gives an updated and comprehensive account of the research in the field of MOFs and their derived nanomaterials. Whether as a reference for industry professionals and nanotechnologists or for use in the classroom for graduate and postgraduate students, faculty members, and research and development specialists working in the area of inorganic chemistry, materials science, and chemical engineering, this is a must-have for any library. Volume 10 in the Handbook of Green Chemistry series provides useful and practical tools, databases, and laboratory approaches to support chemists working in both academia and industry in achieving their green chemistry goals. Among many other helpful techniques covered, the authors offer prediction software, life cycle assessment methodology, and screening tools. In the last two decades, metal-organic frameworks (MOFs) have provoked considerable interest due to their potential applications in different fields such as catalysis, gas storage and sensing. The most important advantages of MOFs over other porous materials is the ability of tailoring their pore size, functionality and even the topology of the framework by rational selection of the molecular building blocks. Therefore, many chemists have tried to engineer the structure of MOFs to achieve specific functions. Pillared metal organic frameworks are a class of MOFs composed of inorganic secondary building units (SBUs) and two sets of organic linkers, generally oxygen- and nitrogen-donor ligands. Typically, in the structure of pillared MOFs, the oxygen-donor struts link the metal clusters into a two-dimensional (2D) sheet and the N-donor struts pillar the sheets to generate a three-dimensional (3D) framework. Thus, the construction of MOFs by utilizing two sets of organic linkers could provide an

extra possibility for further tuning of MOF's pore walls. A variety of functional groups including imine, amide and heterocycles were successfully incorporated into bidentate pillar ligand skeleton. Interestingly, by using pillaring linkers with different length, a wide diversity of metal-organic frameworks with tunable pore dimensions and topologies can be obtained. In this book, we introduce pillared metal organic frameworks with their properties and applications. These proceedings of the World Congress 2006, the fourteenth conference in this series, offer a strong scientific program covering a wide range of issues and challenges which are currently present in Medical physics and Biomedical Engineering. About 2,500 peer reviewed contributions are presented in a six volume book, comprising 25 tracks, joint conferences and symposia, and including invited contributions from well known researchers in this field. Since the 2014 Ebola outbreak many public- and private-sector leaders have seen a need for improved management of global public health emergencies. The effects of the Ebola epidemic go well beyond the three hardest-hit countries and beyond the health sector. Education, child protection, commerce, transportation, and human rights have all suffered. The consequences and lethality of Ebola have increased interest in coordinated global response to infectious threats, many of which could disrupt global health and commerce far more than the recent outbreak. In order to explore the potential for improving international management and response to outbreaks the National Academy of Medicine agreed to manage an international, independent, evidence-based, authoritative, multistakeholder expert commission. As part of this effort, the Institute of Medicine convened four workshops in summer of 2015 to inform the commission report. The presentations and discussions from the Workshop on Research and Development of Medical Products are summarized in this report. This book presents key activities, promising practices, and lessons learned to date from the World Bank's Tuberculosis (TB) in the Mining Sector Initiative--an innovative multisectoral, multicountry,

public-private regional initiative. It examines how a collaborative platform was established to cover 10 southern African countries, and it details the processes through which multiple countries, ministries, sectors, and partners have been brought together to address the varied dimensions of the epidemic. The case studies in this book highlight the significant progress and achievements made since 2010 in the effort to develop a regional platform for addressing TB in the mining sector in southern Africa. The primary focus of the case studies is how these cooperative regional processes--at both technical and political levels--have been designed, implemented, managed, and sustained through various partnerships to complement country-level efforts. The case studies provide an evidence base for practitioners working in TB management in the mining sector. Despite the achievements that have been made and their potential to strengthen TB interventions, critical gaps remain in addressing barriers to access, delivery of quality services, and increased uptake of TB services. The case studies explore these key challenges and gaps, and they offer strategies for replicating successes and addressing complex health-service delivery interventions in other regions around the world. Further action is needed, including better compliance with occupational health and safety standards by mining companies; strengthened community health systems and improved coordination of TB care; increased empowerment and participation of women in the mining sector; and improved tracking and tracing of ex-mineworkers across borders. The aim of the book is to provide helpful models, lessons learned, and recommendations that can be used as a starting point for analyzing the risks, opportunities, incentives, and contexts of regional health cooperation that involves multiple sectors and stakeholders. The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The

goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field. This handbook provides researchers and students with an overview of the field of sustainability indicators (SIs) as applied in the interdisciplinary field of sustainable development. The editors have sought to include views from the center ground of SI development but also divergent ideas which represent some of the diverse, challenging and even edgy observations which are prominent in the wider field of SI thinking. The contributions in this handbook:

- clearly set out the theoretical background and history of SIs, their origins, roots and initial goals
- expand on the disciplines and modalities employed to develop SIs of various kinds
- assess the various ways in which SI data are gathered and the availability (over space and time) and quality issues that surround them
- explore the multiplex world of SIs as expressed in agencies around the world, via examples of SI practice and the lessons that have emerged from them
- critically review the progress that SIs have made over the last 30 years
- express the divergence of views which are held about the value of SIs, including differing theories on their efficacy, efficiency and ethics
- explore the frontier of contemporary SI thinking, reviewing ante/post and systemic alternatives

This multidisciplinary and international handbook will be of great interest to researchers, students and practitioners working in

sustainability research and practice. Significant progression and usage of Internet innovations has caused a need for streamlining past, present, and future database technologies. Principle Advancements in Database Management Technologies: New Applications and Frameworks presents exemplary research in a variety of areas related to database development, technology, and use. This authoritative reference source presents innovative approaches by leading international experts to serve as the primary database management source for researchers, practitioners, and academicians. Many of the advances achieved in framework technology during the last five years are reported in this volume. However, despite acknowledged developments and an enormous investment by the Computer-Aided Design (CAD) vendor industry and others, commercial framework products have been slow to appear on the market. Further, those which have appeared, have largely failed to meet original targets, whether in terms of scope or performance or both. Reaching a consensus on new international standards has been a painfully slow process, with rapid advances in technology often rendering new standards out of date even before their eventual appearance. A motivation for agreement on technical issues, not yet fully understood or researched, will be vital if a commercial basis to underpin future development is to be achieved. It is hoped this book will stimulate interchange between researchers, developers and users so that practical progress can be made, backed by the strong support of interested industries. This textbook covers the full spectrum of tuberculosis-related topics in a comprehensive yet easy-to-follow, readily accessible format. Filling a significant gap in tuberculosis literature, it addresses tuberculosis sensu lato, mirroring the content of the London Queen Mary University tuberculosis Diploma. Covering all aspects related to this condition, from prevention, diagnosis and treatment to public and global health, the book provides a broad overview of tuberculosis management. Further, it includes a wealth of case studies and exercises, making it an essential guide for all staff

involved in tuberculosis management. Written by an international and interdisciplinary panel of experts, the book appeals to a broad readership including students, postdoctoral fellows, clinicians, researchers, and nurses, as well as public health officers working in tuberculosis control programs. The emergence of extensively drug-resistant strains of tuberculosis, especially in countries with a high prevalence of human immunodeficiency virus, is a serious threat to global public health and jeopardizes efforts to effectively control the disease. This publication offers updated recommendations for the diagnosis and management of drug-resistant tuberculosis in a variety of geographical, economic and social settings, and the recording of data that enables the monitoring and evaluation of programs.-- Publisher's description. Chemical Modelling: Applications and Theory comprises critical literature reviews of all aspects of molecular modelling. Molecular modelling in this context refers to modelling the structure, properties and reactions of atoms, molecules and materials. The tenth volume of the series brings Jan Ole Joswig to the editorial team, and a wealth of new reviews spanning several disciplines. For example, materials scientists will benefit from the review on Inverse Molecular Design for Materials and Modelling PAHs will be of interest to environmental scientists. Other reviews have detailed focus on modelling, such as Reaction Kinetics and Accurate Modelling of Electric Properties of Polyatomic molecules from the first principles. Each chapter provides a selective review of recent literature, incorporating sufficient historical perspective for the non-specialist to gain an understanding. With chemical modelling covering such a wide range of subjects, this Specialist Periodical Report serves as the first port of call to any chemist, biochemist, materials scientist or molecular physicist needing to acquaint themselves with major developments in the area. The Global Tuberculosis Programme of the World Health Organization (WHO) convened a virtual technical consultation on “Innovative Clinical Trial Designs for Development of New TB Treatments” on 5 days

between 20 August and 13 October 2021. The main objective of the meeting was to establish evidence-based approaches to trial designs and use of data to inform policy guidance of new regimens for the treatment of TB with the view to accelerate future regimen development. The consultation brought together researchers, academics, technical partners, TB drugs and regimens developers including pharmaceutical industry, trialists, regulators, guideline developers, programme managers, nongovernmental organizations and civil society. This book constitutes the refereed proceedings of workshops, held at the 30th International Conference on Conceptual Modeling, ER 2011, in Brussels, Belgium in October/November 2011. The 31 revised full papers presented together with 9 posters and demonstrations (out of 88 submissions) for the workshops and the 6 papers (out of 11 submissions) for the industrial track were carefully reviewed and selected. The papers are organized in sections on the workshops Web Information Systems Modeling (WISM); Modeling and Reasoning for Business Intelligence (MORE-BI); Software Variability Management (Variability@ER); Ontologies and Conceptual Modeling (Onto.Com); Semantic and Conceptual Issues in GIS (SeCoGIS); and Foundations and Practices of UML (FP-UML).

Adsorption and desorption in solution play significant roles in separations, detoxification of waste streams, in purification, chromatography, heterogeneous catalysis, metabolism of medicinal drugs, and beyond. Metal-Organic Frameworks (MOFs) are well-ordered 3-dimensional hybrid organic-inorganic polymers which contain metal cations and the structure-building organic "linker" units. Mesoporous MOFs with pore sizes 2-50 nm are particularly suitable for adsorption and adsorption-based separations of large molecules of organic and bio-organic compounds. Thousands of organic compounds and, in particular, aromatic and heterocyclic compounds are widely used as feedstock for industrial chemical synthesis, as fine chemicals, major components of liquid fossil fuels, dyestuffs, industrial solvents, agricultural chemicals, medicinal

drugs, pharmaceuticals and personal care products (PPCPs), and active pharmaceutical ingredients (APIs). There is a strong interest towards synthesis, characterization and studies of both known and newly synthesized mesoporous MOFs for adsorption in solution to achieve the high adsorption capacity, selectivity, and the possibility of multiple regeneration of "spent" sorbent. This book covers experimental fundamental research on using mesoporous MOFs in emerging applications of major industrial, environmental and academic importance, especially purification of water and liquid fossil fuels and in advanced biomedical technologies. 319.6

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