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Threshold Level 1990 Jan Ate van Ek 1991-01-01

Using OpenMP Barbara Chapman 2007-10-12 A comprehensive overview of OpenMP, the standard application programming interface for shared memory parallel computing—a reference for students and professionals. "I hope that readers will learn to use the full expressibility and power of OpenMP. This book should provide an excellent introduction to beginners, and the performance section should help those with some experience who want to push OpenMP to its limits." —from the foreword by David J. Kuck, Intel Fellow, Software and Solutions Group, and Director, Parallel and Distributed Solutions, Intel Corporation OpenMP, a portable programming interface for shared memory parallel computers, was adopted as an informal standard in 1997 by computer scientists who wanted a unified model on which to base programs for shared memory systems. OpenMP is now used by many software developers; it offers significant advantages over both hand-threading and MPI. Using OpenMP offers a comprehensive introduction to parallel programming concepts and a detailed overview of OpenMP. Using OpenMP discusses hardware developments, describes where OpenMP is applicable, and compares OpenMP to other programming interfaces for shared and distributed memory parallel architectures. It introduces the individual features of OpenMP, provides many source code examples that demonstrate the use and functionality of the language constructs, and offers tips on writing an efficient OpenMP program. It describes how to use OpenMP in full-scale applications to achieve high performance on large-scale architectures, discussing several case studies in detail, and offers in-depth troubleshooting advice. It explains how OpenMP is translated into explicitly multithreaded code, providing a valuable behind-the-scenes account of OpenMP program performance. Finally, Using OpenMP considers trends likely to influence OpenMP development, offering a glimpse of the possibilities of a future OpenMP 3.0 from the vantage point of the current OpenMP 2.5. With multicore computer use increasing, the need for a comprehensive introduction and overview of the standard interface is clear. Using OpenMP provides an essential reference not only for students at both undergraduate and graduate levels but also for professionals who intend to parallelize existing codes or develop new parallel programs for shared memory computer architectures.

Common European Framework of Reference for Languages: Learning, Teaching, assessment Council of Europe 2020-05-05 The CEFR Companion volume broadens the scope of language education. It reflects academic and societal developments since the publication of the Common European Framework of Reference for Languages (CEFR) and updates the 2001 version. It owes much to the contributions of members of the language teaching profession across Europe and beyond. This volume contains: ? an explanation of the key aspects of the CEFR for teaching and learning; ? a complete set of updated CEFR descriptors that replaces the 2001 set with: - modality-inclusive and gender-neutral descriptors; - added detail on listening and reading; - a new Pre–A1 level, plus enriched description at A1 and C levels; - a replacement scale for phonological competence; - new scales for mediation, online interaction and plurilingual/pluricultural competence; - new scales for sign language competence; ? a short report on the four-year development, validation and consultation processes. The CEFR Companion volume represents another step in a process of engagement with language education that has been pursued by the Council of Europe since 1971 and which seeks to: ? promote and support the learning and teaching of modern languages; ? enhance intercultural dialogue, and thus mutual understanding, social cohesion and democracy; ? protect linguistic and cultural diversity in Europe; and ? promote the right to quality education for all.

The Complete Guide to Cardiac CT Simeon Abramson 2011-12-07 Acquire a thorough understanding of cardiac imaging! "I believe radiologists, cardiologists, and clinicians, as well as trainees, will find The Complete Guide to Cardiac CT to be an indispensable tool for learning the subject matter....It is practical in approach, but is solidly grounded in evidence-based medicine with a comprehensive review of the literature and timely references. The textbook provides an ideal resource for the cardiac imager and serves as an exceptional reference tool for understanding the anatomy and disease processes of the heart and coronary circulatory systems."--Theresa C. McLoud, MD, Dept. of Radiology, Massachusetts General Hospital, and Professor of Radiology, Harvard Medical School (from the foreword) Based on the popular review courses of educator and radiologist Dr. Simeon Abramson, The Complete Guide to Cardiac CT is a timely, hands-on learning tool—one that will help you master every important aspect of cardiac CT, from acquisition to interpretation. This unique guide translates complex concepts and topics into understandable, relevant subject matter and includes contributions from international leaders in cardiac CT. Designed for the practical, day-to-day application of cardiac CT, the text also serves as a comprehensive visual resource more than 1000 laser-precise images and illustrations, all of which reflect the latest clinical acumen and cardiac imaging technology. FEATURES Focuses on the recognition, identification, and comprehension of heart and coronary circulatory pathology Valuable to clinicians at any experience level Logical 4-part organization consists of: Technology section that encompasses coronary CT angiography technique, radiation concepts, and successful application of radiation dose reduction tools—plus a detailed review of strategies for overcoming suboptimal examinations, complete with case examples. Coronary Arteries section that thoroughly examines plaque detection and characterization, stenosis assessment, stents and bypass grafts, and assessment of coronary artery anomalies. Beyond the Coronary Arteries details cardiac CT anatomy; myocardial, pericardial and valvular pathology; electrophysiology applications; and congenital heart disease in both pediatric and adult populations. Controversial topics focuses on the utilization of cardiac CT in the acute setting, institution of the triple rule-out protocol, and anatomic versus physiologic imaging with Rubidium PET/CT/ Helpful pedagogy includes numerous tables, diagrams, figures, and illustrations

General Catalogue of Printed Books to 1955 British Museum. Dept. of Printed Books 1967

Responsive Open Learning Environments Sylvana Kroop 2015-01-07 This book presents the outcomes of four years of educational research in the EU-supported project called ROLE (Responsive Online Learning Environments). ROLE technology is centered around the concept of self-regulated learning that creates responsible learners, who are capable of critical thinking and able to plan their own learning processes. ROLE allows learners to independently search for appropriate learning resources and then reflect on their own learning process and progress. To accomplish this, ROLE ?s main objective is to support the development of open personal learning environments (PLE's). ROLE provides a framework consisting of "enabler spaces" on the one hand and tools, content, and services on the other. Utilizing this framework, learners are invited to create their own controlled and preferred learning environments to trigger and motivate self-regulated learning. Authors of this book are researchers, developers and teachers who have worked in the ROLE project and belong to the ROLE partner consortium consisting of 16 internationally renowned research institutions, including those from 6 EU countries and China. Chapters include numerous practical tutorials to guide the reader in creating innovative and useful learning widgets and present the best practices for the development of PLE's.

The Migration Conference 2019 - Book of Abstracts and Programme Fethiye Tilbe 2019-06-08 We're pleased to welcome you to the Department of Political Science at the University of Bari "Aldo Moro" for the 7th Migration Conference. The conference is the largest scholarly gathering on migration with a global scope. Human mobility, economics, work, employment, integration, insecurity, diversity and minorities, as well as spatial patterns, culture, arts and legal and political aspects appear to be key areas in the current migration debates and research. Throughout the program of the Migration Conference you will find various key thematic areas covered in 598 presentations by 767 contributors coming from all around the world, from Australia to Canada, China to Colombia, Brazil to Korea, and South Africa to Norway. We are proud to bring together experts from universities, independent research organisations, governments, NGOs and the media. We are also proud to bring you opportunities to meet with some of the leading scholars in the field. This year invited speakers include Fiona B. Adamson, Markus Kotzur, Philip L. Martin, Karsten Paerregaard, Ferruccio Pastore, Martin Ruhs, Jeffrey H. Cohen, and Carlos Vargas Silva. Although the main language of the conference is English, this year we will have linguistic diversity as usual and there will be presentations in French, Italian, Spanish and Turkish. We have maintained over the years a frank and friendly environment where constructive criticism foster scholarship, while being nice improves networks and quality of the event. We hope to continue with this tradition and you will enjoy the Conference and Bari during your stay. We thank all participants, invited speakers and conference committees for their efforts and contribution. We also thank many colleagues who were interested in and submitted abstracts but could not make it this year. We are particularly grateful to hundreds of colleagues who served as reviewers and helped the selection process. We also thank to those colleagues who organised panels and agreed to chair parallel sessions over three days. We reserve our final thanks to the team of volunteers whose contributions have been essential to the success of the conference. In this regard, special thanks are reserved for our volunteers and team leaders Rosa, Alda, Franco, and Aldo from the University of Bari, Tuncay and Fatma from Regent's University London, Fethiye from Namik Kemal University and Vildan from Galatasaray University, Ege from Middle East Technical University, Mehari from Regent's University London, and Gizem from Transnational Press London. Our final thanks are reserved for the leaders of the University of Bari "Aldo Moro" and the Department of Political Science, President of Puglia Regional Administration and Mayor of City of Bari for their generous support in enriching the Conference programme. Please do not hesitate to get in touch with us through the conference email (migrationscholar@gmail.com). Ibrahim Sirkeci and Michela C. Pellicani The Migration Conference Chairs The Migration Conference 2019 The Migration Conference is a global venue for academics, policy makers, practitioners, students and everybody who is interested in intelligent debate and research informed discussions on human mobility and its impacts around the world. The Migration Conference 2019 is the 7th conference in the series and co-organised and hosted by the University of Bari "Aldo Moro", Italy and Transnational Press London. The Migration Conferences were launched at the Regent's Centre for Transnational Studies in 2012 when the first large scale well attended international peer-reviewed conference with a focus on Turkish migration in Europe in Regent's Park campus of Regent's University London. The migration conferences have been attended by thousands of participants coming from all around the world in London (2012), London (2014), Prague (2015), Vienna (2016), Athens (2017), Lisbon (2018), and Bari (2019).

Bi- and multilingual universities: European perspectives and beyond Daniela Veronesi 2009 This collection of the proceedings of the 3rd conference on bi- and multilingual universities, held at the Free University of Bozen-Bolzano from 20 to 22 September 2007, tries to give a state-of-the-art insight into theoretical and practical approaches towards implementing bi- and multilingual models and policies in higher education institutions in various parts of the world.

The Pharmacist Guide to Implementing Pharmaceutical Care Filipa Alves da Costa 2019 Through the contributions of over 30 global experts, this book meets the growing need to understand the development and implementation of pharmaceutical care. This guide to pharmaceutical Care implementation details the pharmacist's role in providing a broad array of care to various kinds of patients, using strategies that improve humanistic, economic and clinical outcomes. Written with a focus for students, pharmacists and researchers, this book offers multiple scenarios to advance the care of patients. It will enhance the knowledge and skills of the providers. The examples describe the details of the structured processes from pharmacists and researchers who have worked in these fields for many years: detecting drug-related problems, providing pharmaceutical care in different settings (community, nursing homes, hospitals and clinics), evaluating research-indicators and outcomes, and teaching at universities and colleges. Readers will use this book to: Improve their skills to prevent, detect and solve drug-related problems Develop and improve communication skills to establish useful relationships with patients and healthcare professionals. Understand the characteristics of (pharmaceutical) care for patients in different settings Use different tools to showcase pharmaceutical care services Learn the role of standards, guidelines, protocols and indicators to guide and evaluate pharmaceutical care Understand the importance of the documentation of pharmaceutical care practices and create evidence and opportunities for remuneration Consolidate knowledge from different global studies and research outcomes.

Pragmatic Competence Naoko Taguchi 2009-09-04 In the disciplines of applied linguistics and second language acquisition (SLA), the study of pragmatic competence has been driven by several fundamental questions: What does it mean to become pragmatically competent in a second language (L2)? How can we examine pragmatic competence to make inference of its development among L2 learners? In what ways do research findings inform teaching and assessment of pragmatic competence? This book explores these key issues in Japanese as a second/foreign language. The book has three sections. The first section offers a general overview and historical sketch of the study of Japanese pragmatics and its influence on Japanese pedagogy and curriculum. The overview chapter is followed by eight empirical findings, each dealing with phenomena that are significant in Japanese pragmatics. They target selected features of Japanese pragmatics and investigate the learners' use of them as an indicator of their pragmatic competence. The target pragmatic features are wide-ranging, among them honorifics, speech style, sentence final particles, speech acts of various types, and indirect expressions. Each study explicitly prompts the connection between pragmalinguistics (linguistic forms available to perform language functions) and sociopragmatics (norms that determine appropriate use of the forms) in Japanese. By documenting the understanding and use of them among learners of Japanese spanning multiple levels and time durations, this book offers insight about the nature and development of pragmatic competence, as well as implications for the learning and teaching of Japanese pragmatics. The last section presents a critical reflection on the eight empirical papers and prompts a discussion of the practice of Japanese pragmatics research.

Psychological Management of Individual Performance Sabine Sonnentag 2003-01-17 Psychological Management of Individual Performance is a unique combination of contributions from an academic and a practitioner for each topic. Leading international authors come together in this integrative and comprehensive handbook, to combine academic research findings and to provide detailed practice-relevant information, on subjects such as performance concepts, work design, cognitive ability and personality as predictors of performance, performance appraisal and potential analysis, goal setting, training, mentoring, reward systems, strategic HRM as well as broader issues such as well-being and organizational culture. This Handbook is a valuable resource for researchers, academics and advanced students in psychology and related fields; as well as consultants, practitioners and professionals in HR, who

want to contribute to the enhancement and maintenance of high individual performance.

Recent Advances in Transthyretin Evolution, Structure and Biological Functions Samantha J. Richardson 2009-08-09 Since its first description in 1942 in both serum and cerebrospinal fluid, transthyretin (TTR) has had an eventful history, including changes in name from "prealbumin" to "thyroxine-binding prealbumin" to "transthyretin" as knowledge increased about its functions. TTR is synthesised in a wide range of tissues in humans and other eutherian mammals: the liver, choroid plexus (blood-cerebrospinal fluid barrier), retinal pigment epithelium of the eye, pancreas, intestine and meninges. However, its sites of synthesis are more restricted in other vertebrates. This implies that the number of tissues synthesising TTR during vertebrate evolution has increased, and raises questions about the selection pressures governing TTR synthesis. TTR is most widely known as a distributor of thyroid hormones. In addition, TTR binds retinol-binding protein, which binds retinol. In this way, TTR is also involved with retinoid distribution. More recently, TTR has been demonstrated to bind a wide variety of endocrine disruptors including drugs, pollutants, industrial compounds, heavy metals, and some naturally occurring plant flavonoids. These not only interfere with thyroid hormone delivery in the body, but also transport such endocrine disruptors into the brain, where they have the potential to accumulate.

Food Ethics Louis P. Pojman 2016-01-01 FOOD ETHICS, 2E explores the ethical choices we make each time we eat. With twenty-six readings that bring together a diverse group of voices, this textbook dives into issues such as genetically modified foods, animal rights, population and consumption, the food industry's impact on pollution, centralized versus localized production, and more. In addition, this edition includes new introduction, new readings, a comprehensive index, and study questions that frame these significant issues for discussion and reflection. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Translation of European Union Legislation. A Corpus-based Study of Norms Francesca Seracini 2020

Fundamental Questions Ulla Weber 2021-05-11 Mit "Fundamental Questions" legt die Max-Planck-Gesellschaft zum ersten Mal einen Sammelband zur Geschlechterforschung vor. Dank des breiten Spektrums der in der Forschungsgesellschaft vertretenen Fachrichtungen und Fachkulturen präsentieren die aus verschiedenen Instituten stammenden AutorInnen Erkenntnisse aus zahlreichen Forschungsfeldern: Recht, Kunstgeschichte, Wissenschaftsgeschichte, Neurowissenschaften und Informatik. Ebenso vielgestaltig sind die Ansätze, Themen, Fragestellungen und Methodik der versammelten Beiträge.

Diese Vielfalt zeigt in bester Art und Weise, dass die Integration der Geschlechterperspektive nicht nur für angewandte Wissenschaft und Entwicklung, sondern ebenso für die Grundlagenforschung gewinnbringend ist. Mit Beiträgen von Dr. Laura A. Bechthold, Elifcan Celebi, Dr. Marina Chugunova, Dr.

Luisa Stella de Oliveira Coutinho Silva, Svenja Friess, Ph.D. Giorgia Gastaldon, Dr. Lisa Hanstein, Dr. Philine Helas, Prof. Karin Hoisl, Ph.D. Michael E. Rose, Esra Sarioglu, Isabel Valera und Dr. Ulla Weber.

Archaeology of Culture Contact and Colonialism in Spanish and Portuguese America Pedro Paulo A. Funari 2014-11-11 The volume contributes to disrupt the old grand narrative of cultural contact and colonialism in Spanish and Portuguese America in a wide and complete sense. This edited volume aims at exploring contact archaeology in the modern era. Archaeology has been exploring the interaction of peoples and cultures from early times, but only in the last few decades have cultural contact and material world been recognized as crucial elements to understanding colonialism and the emergence of modernity. Modern colonialism studies pose questions in need of broader answers. This volume explores these answers in Spanish and Portuguese America, comprising present-day Latin America and formerly Spanish territories now part of the United States. The volume addresses studies of the particular features of Spanish-Portuguese colonialism, as well as the specificities of Iberian colonization, including hybridism, religious novelties, medieval and modern social features, all mixed in a variety of ways unique and so different from other areas, particularly the Anglo-Saxon colonial thrust. Cultural contact studies offer a particularly in-depth picture of the uniqueness of Latin America in terms of its cultural mixture. This volume particularly highlights local histories, revealing novelty, diversity, and creativity in the conformation of the new colonial realities, as well as presenting Latin America as a multicultural arena, with astonishing heterogeneity in thoughts, experiences, practices, and, material worlds.

Student Solutions Manual with Study Guide John Jewett 2010-05-27

Carbon Sequestration Potential of Agroforestry Systems B. Mohan Kumar 2011-08-05 Tree based production systems abound especially in the tropics. Despite the pervasiveness of such multipurpose "trees-outside-forest" resources, they have not attracted adequate attention in the development paradigms of many nation states. These multispecies production systems impact the ecosystem processes favourably. Yet, our understanding of the diversity attributes and carbon dynamics under agroforestry is not adequate. This book focuses on the role of multispecies production systems involving tree and crop species as a means for carbon sequestration and thereby reduce atmospheric carbon dioxide levels. Sixteen chapters organized into three broad sections titled: Measurement and Estimation, Agrobiodiversity and Tree Management, and Policy and Socioeconomic Aspects represent a cross section of the opportunities and challenges in current research and emerging issues in harnessing carbon sequestration potential of agroforestry systems.

Raising Kanye Donda West 2007-05-08 As the mother of hip-hop superstar Kanye West, Donda West has watched her son grow from a brilliant baby boy with all the intimations of fame and fortune to one of the hottest rappers on the music scene. And she has every right to be proud: she raised her son with strong moral values, teaching him right from wrong and helping him become the man he is today. In *Raising Kanye*, Donda not only pays homage to her famous son but reflects on all the things she learned about being his mother along the way. Featuring never-before-seen photos and compelling personal anecdotes, Donda's powerful and inspiring memoir reveals everything from the difficulties she faced as a single mother in the African-American community to her later experiences as Kanye's manager as he rose to superstardom. Speaking frankly about her son's reputation as a "Mama's Boy," and his memorable public outbursts about gay rights and President George W. Bush, Donda supports her son without exception, and here she shares the invaluable wisdom she has taken away from each experience -- passion, tolerance, patience, and above all, always telling the truth. Ultimately, she not only expresses what her famously talented son has meant to her but what he has meant to music and an entire generation.

Convergence and Divergence in Ibero-Romance Across Contact Situations and Beyond Miriam Bouzouita 2021-10-11 This book presents new perspectives on convergence and divergence phenomena in the Ibero-Romance languages. It brings together nine case studies that deal with contact between languages found in the Iberian Peninsula (Castilian, Catalan, Portuguese

Principles of Geology Sir Charles Lyell 1857

Nothingness, Metanarrative, and Possibility William E. Marsh 2009-08-14 What is the solution to human angst and nothingness, the gnawing emptiness and frustration with the limits and fragility of this present existence? After reviewing the work of Sren Kierkegaard, Friedrich Nietzsche, Martin Heidegger, and Jean Paul Sartre on this question, this work argues that the proper response must be metaphysical metanarrative, a transcendent metaphysical metanarrative that is the ground of all that is, yet a metaphysical metanarrative that makes the fullness of meaning available and apprehensible in physical experience. This metanarrative, this work asserts, is the logos, the ultimate referent principle of the ancient Greeks and, according to Christianity, the God-man Jesus Christ, the eternal become present in present experience. Because the logos constitutes transcendence in human form, it recognizes the beauty of existential experience even as it underscores the necessity of transcendence for temporal meaning. The logos as metaphysical metanarrative brings the worlds of time and eternity together, linking earth and the beyond in a seamless whole. It is the ultimate existential experience.

The Knowledge Web Marc Eisenstadt 2000 First Published in 2000. Routledge is an imprint of Taylor & Francis, an informa company.

Twelve Years a Slave Solomon Northup 2021-01-01 "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

New Perspectives on Lexical Borrowing Eline Zenner 2013-11-27 This volume aims to broaden the focus of existing loanword research, which has mainly been conducted from a systemic and structuralist perspective. The eight studies in this volume introduce onomasiological, phraseological, and methodological innovations to the study of lexical borrowing. These new perspectives significantly enhance our understanding of lexical borrowing and provide new insights into contact-induced variation and change.

Confronting the Past Vjieran Pavlakovi? 2012-09-01

Some Account of Gothic Architecture in Spain George Edmund Street 1865

Grid-Scale Energy Storage Systems and Applications Fu-Bao Wu 2019-06-11 Grid-Scale Energy Storage Systems and Applications provides a timely introduction to state-of-the-art technologies and important demonstration projects in this rapidly developing field. Written with a view to real-world applications, the authors describe storage technologies and then cover operation and control, system integration and battery management, and other topics important in the design of these storage systems. The rapidly-developing area of electrochemical energy storage technology and its implementation in the power grid is covered in particular detail. Examples of Chinese pilot projects in new energy grids and micro grids are also included. Drawing on significant Chinese results in this area, but also including data from abroad, this will be a valuable reference on the development of grid-scale energy storage for engineers and scientists in power and energy transmission and researchers in academia. Addresses not only the available energy storage technologies, but also topics significant for storage system designers, such as technology management, operation and control, system integration and economic assessment Draws on the wealth of Chinese research into energy storage and describes important Chinese energy storage demonstration projects Provides practical examples of the application of energy storage technologies that can be used by engineers as references when designing new systems Common European Framework of Reference for Languages : Learning, Teaching, Assessment Council for Cultural Co-operation Council of Europe (Education Committee, Modern Languages Division) 2003

Italian Mathematics Between the Two World Wars Angelo Guerraggio 2006-01-20 This book describes Italian mathematics in the period between the two World Wars. It analyzes the development by focusing on both the interior and the external influences. Italian mathematics in that period was shaped by a colorful array of strong personalities who concentrated their efforts on a select number of fields and won international recognition and respect in an incredibly short time. Consequently, Italy was considered a third mathematical power after France and Germany.

The Volterra Chronicles Judith R. Goodstein 2007 The life of Vito Volterra, one of the finest scientists and mathematicians Italy ever produced, spans the period from the unification of the Italian peninsula in 1860 to the onset of the Second World War--an era of unparalleled progress and unprecedented turmoil in the history of Europe. Born into an Italian Jewish family in the year of the liberation of Italy's Jewish ghettos, Volterra was barely in his twenties when he made his name as a mathematician and took his place as a leading light in Italy's modern scientific renaissance. By his early forties, he was a world-renowned mathematician, a sought-after figure in European intellectual and social circles, the undisputed head of Italy's mathematics and physics school--and still living with his mother, who decided the time was ripe to arrange his marriage. When Italy entered World War I in 1915, the fifty-five-year-old Volterra served with distinction and verve as a lieutenant and did not put on civilian clothes again until the Armistice of 1918. This book, based in part on unpublished personal letters and interviews, traces the extraordinary life and times of one of Europe's foremost scientists and mathematicians, from his teenage struggles to avoid the stifling life of a "respectable" bank clerk in Florence, to his seminal mathematical work--which today influences fields as diverse as economics, physics, and ecology--and from his spirited support of Italy's scientific and democratic institutions during his years as an Italian Senator, to his steadfast defiance of the Fascists and Mussolini. In recounting the life of this outstanding scientist, European Jewish intellectual, committed Italian patriot, and devoted if frequently distracted family man, *The Volterra Chronicles* depicts a remarkable individual in a prodigious age and takes the reader on a vivid and splendidly detailed historical journey.

International manual of planning practice : IMPP Judith Ryser 2008

Geocomputation, Sustainability and Environmental Planning Beniamino Murgante 2014-03-21 The experience developed by Ian McHarg represents the first attempt to base environmental planning on more objective methods. In particular, he supposed that the real world can be considered as a layer cake and each layer represents a sectoral analysis. This metaphor represents the fundamental of overlay mapping. At the beginning, these principles have been applied only by hand, just considering the degree of darkness, produced by layer transparency, as a negative impact. In the following years, this craftmade approach, has been adopted for data organization in Geographical Information Systems producing analyses with a high level of quality and rigour. Nowadays, great part of studies in environmental planning field have been developed using GIS. The next step relative to the simple use of geographic information in supporting environmental planning is the adoption of spatial simulation models, which can predict the evolution of phenomena. As the use of spatial information has definitely improved the quality of data sets on which basing decision-making process, the use of Geostatistics, spatial simulation and, more generally, geocomputation methods allows the possibility of basing the decision-making process on predicted future scenarios. It is very strange that a discipline such as planning which programs the territory for the future years in great part of cases is not based on simulation models. Sectoral analyses, often based on surveys, are not enough to highlight dynamics of an area. Better knowing urban and environmental changes occurred in the past, it is possible to provide better simulations to predict possible tendencies. The aim of this book is to provide an overview of the main methods and techniques adopted in the field of environmental geocomputation in order to produce a more sustainable development.

Free Energy Calculations Christophe Chipot 2007-01-08 Free energy constitutes the most important thermodynamic quantity to understand how chemical species recognize each other, associate or react. Examples of problems in which knowledge of the underlying free energy behaviour is required, include conformational equilibria and molecular association, partitioning between immiscible liquids, receptor-drug interaction, protein-protein and protein-DNA association, and protein stability. This volume sets out to present a coherent and comprehensive account of the concepts that underlie different approaches devised for the determination of free energies. The reader will gain the necessary insight into the theoretical and computational foundations of the subject and will be presented with relevant applications from molecular-level modelling and simulations of chemical and biological systems. Both formally accurate and approximate methods are covered using both classical and quantum mechanical descriptions. A central theme of the book is that the wide variety of free energy calculation techniques available today can be understood as different implementations of a few basic principles. The book is aimed at a broad readership of graduate students and researchers having a background in chemistry, physics, engineering and physical biology.

International Migration in Europe Corrado Bonifazi 2008 Literaturangaben

Vocational Training Strategies 2002

Money and Coinage in the Middle Ages Rory Naismith 2018 Money and Coinage in the Middle Ages presents an original and valuable set of studies into aspects of a critical but challenging category of material.

The Wild Solanums Genomes Domenico Carputo 2021-09-21 This book gathers the latest information on the organization of genomes in wild Solanum species and emphasizes how this information is yielding direct outcomes in the fields of molecular breeding, as well as a better understanding of both the

patterns and processes of evolution. Cultivated Solanums, such as potato, tomato, and pepper, possess a high number of wild relatives that are of great importance for practical breeding and evolutionary studies. Their germplasm is often characterized by allelic diversity, as well as genes that are lacking in the cultivated species. Wild Solanums have not been fully exploited by breeders. This is mainly due to the lack of information regarding their genetics and genomics. However, the genome of important cultivated Solanaceae such as potato, tomato, eggplant, and pepper has already been sequenced. On the heels of these recent developments, wild Solanum genomes are now becoming available, opening an exciting new era for both basic research and varietal development in the Solanaceae.

Should I Try to Work It Out? Alan J. Hawkins 2013-07-01 This guidebook is designed to be a resource to individuals who may be thinking about getting a divorce or whose spouse is thinking about divorce. These individuals are at the "crossroads of divorce," facing a challenging decision that has powerful consequences for the future of their own lives, the lives of family members, and their communities. The guidebook contains research-based information about important questions that individuals at the crossroads of divorce often have, such as: Can my marriage be repaired and can we be happy again? Is divorce a reliable path to happiness? What are the effects of divorce on children, adults, and the communities they live in? What are the legal options for ending a marriage? With objective information and self-guided, written exercises, the authors try to answer these questions and many more in this guidebook and help individuals at the crossroads of divorce think clearly about the best path forward for themselves and their children.

Global Risk Governance Ortwin Renn 2008-12-18 The establishment of the International Risk Governance Council (IRGC) was the direct result of widespread concern that the complexity and interdependence of health, environmental, and technological risks facing the world was making the development and implementation of adequate risk governance strategies ever more difficult. This volume details the IRGC developed and proposed framework for risk governance and covers how it was peer reviewed as well as tested