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The Translator as Mediator of Cultures

Workplace initiatives to manage diversity seek to fully develop the potential of each employee and turn their unique skills into a business advantage. Such fostering of difference enhances team creativity, innovation and problem-solving and is therefore an essential strategy for today's employers. Individual Diversity and Psychology in Organizations is an indispensable handbook for all those involved in managing diversity. Its academic and practice-oriented perspective is unique as it presents practical strategies and case studies alongside academic reviews, giving the reader a balanced overview of each topic. The team of expert authors examine international issues in diversity, such as: Strategies for managing organizational effectiveness Legal and psychological implications Diversity training and its effectiveness Disability, racial equality, age and gender diversity Affirmative action Recognizing stereotypes and bias Business ethics The Future of diversity This much needed handbook will be welcomed by researchers, academics and students in organizational psychology, management and business. It will also be of great use to professionals in human resources, equal opportunities management and management consultancy.

Major Powers and the Korean Peninsula

This second edition volume expands on the previous edition by presenting updated protocols for several of the techniques described in the first edition of *Drosophila: Methods and Protocols* and current methods that cover recent breakthroughs in *Drosophila* research. The book begins with a description of FlyBase--a database of genes and genomes--followed by the presentation of systems for versatile gene expression in the fly. The first few chapters in this book detail gene knockdown and editing, including CRISPR-Cas9 and protein knockdown. The next few chapters are devoted to methods describing live imaging of different tissues and organs, followed by chapters on how to quantify image data and how to probe tissue mechanics by laser ablation. The next two chapters provide methods for analyzing transcription followed by protocols to study growth, metabolism, ageing, and behavior in *Drosophila*. This volume concludes with chapters on electrophysiological recordings and methods to establish cell lines. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and thorough, *Drosophila: Methods and Protocols, Second Edition* is a valuable source of hands-on protocols and reviews for molecular, cell, and developmental biologists using *Drosophila* as model systems in their work.

The Languages of Dubbing

A child being diagnosed with cancer is a frightening and often isolating experience for both the child and family. *C is for Cure* is a simple yet powerful book shedding light on what can be expected after a cancer diagnosis. Written from the perspective of Jenna Barton's three year old son Kai, "*C is for Cure*" uses warmth and humour to help ease the fear of children and their families in this most difficult of circumstances. The book also does a marvelous job of educating both children and adults of what happens behind the scenes as a child undergoes treatment at the same time dispelling some of the common myths. Mixed in are some of the complimentary alternative treatments educating children and parents interested in exploring complimentary avenues for children dealing with cancer. Jenna Barton has done a masterful job of communicating messages on a number of levels to reach a variety of audiences having different maturity levels. *C is for Cure* is a must have book for any library, school, hospital, church, counselor, or any other organizations supporting families experiencing cancer. For the just curious or those in any way associated with the dreadful experience of childhood cancer, Jenna Barton will make you smile for just a minute as *C is for Cure* inspires and informs with Kai's real life journey.

Organizational Climate and Culture

The proceedings of a memorial conference in honour of Professor Zoran Zario are contained in this volume. The conference was held in Dubrovnik, Yugoslavia, in May 1988, and provided a summary of Professor Zario's field - near wall turbulence.

Life and Death of an Oilman

Whilst financial rights have appeared as a successful ingredient in North-American power markets, they have their shortcomings both theoretically and in practice. Financial Transmission Rights: Analysis, Experiences and Prospects present a systematic and comprehensive overview of financial transmission rights (FTRS). Following a general introduction to FTRs, including chapters to explain transmission pricing and the general properties of FTRS, experts in the field provide discussions on wide scope of topics. These include: Varying perspectives on FTRS: from electrical engineers to economists, Different mathematical formulations of FTRS Financial Hedging using FTRS, and Alternative solutions to FTRs The detail, expertise and range of content makes Financial Transmission Rights: Analysis, Experiences and Prospect an essential resource for electricity market specialists both at academic and professional levels. "This is THE BOOK we were all expecting to address all key 'Financial Transmission Rights' issues. It is comprehensive and reader friendly. You can pick at will in its menu: more or less theory, a bit of maths or none, empirical review of real cases or numerical simulations of many feasible options. Big names rally there to delight you like:

Hogan , Oren, Perez-Arriaga, Smeers, Hobbs and Rosellón. More than a must read: a light house, a map and a survival kit." Jean - Michel Glachant, Director Florence School, Holder Loyola de Palacio Chair, Chief-editor Economics of Energy & Environmental Policy. "In the last two decades, economists have developed a better understanding of the impact of financial rights on risk management, market power and network expansion in electricity markets, while power systems have experimented with such rights. Striking a good balance between academics and practitioners, always at the frontier of the field, written by the best experts, this volume is essential reading for all those- power systems' managers and users, regulators, students and researchers- who want to understand the new electricity environment and predict its evolution." Jean Tirole, Toulouse School of Economics and Institute for Industrial Economics (IDEI) Further comments inside.

The Routledge Handbook of Audiovisual Translation

This book is an introduction to the theory, practice, and implementation of the Lattice Boltzmann (LB) method, a powerful computational fluid dynamics method that is steadily gaining attention due to its simplicity, scalability, extensibility, and simple handling of complex geometries. The book contains chapters on the method's background, fundamental theory, advanced extensions, and implementation. To aid beginners, the most essential paragraphs in each chapter are highlighted, and the introductory chapters on various LB topics are front-

loaded with special "in a nutshell" sections that condense the chapter's most important practical results. Together, these sections can be used to quickly get up and running with the method. Exercises are integrated throughout the text, and frequently asked questions about the method are dealt with in a special section at the beginning. In the book itself and through its web page, readers can find example codes showing how the LB method can be implemented efficiently on a variety of hardware platforms, including multi-core processors, clusters, and graphics processing units. Students and scientists learning and using the LB method will appreciate the wealth of clearly presented and structured information in this volume.

Teaching and Researching: Listening

This book discusses novel research on and practices in the field of physics teaching and learning. It gathers selected high-quality studies that were presented at the GIREP-ICPE-EPEC 2017 conference, which was jointly organised by the International Research Group on Physics Teaching (GIREP); European Physical Society – Physics Education Division, and the Physics Education Commission of the International Union of Pure and Applied Physics (IUPAP). The respective chapters address a wide variety of topics and approaches, pursued in various contexts and settings, all of which represent valuable contributions to the field of physics education research. Examples include the design of curricula and strategies to develop student

competencies—including knowledge, skills, attitudes and values; workshop approaches to teacher education; and pedagogical strategies used to engage and motivate students. This book shares essential insights into current research on physics education and will be of interest to physics teachers, teacher educators and physics education researchers around the world who are working to combine research and practice in physics teaching and learning.

An Innovative 3D-CFD-Approach towards Virtual Development of Internal Combustion Engines

The book aims to provide the reader with an updated general presentation of multiscale/multiresolution approaches in turbulent flow simulations. All modern approaches (LES, hybrid RANS/LES, DES, SAS) are discussed and recast in a global comprehensive framework. Both theoretical features and practical implementation details are addressed. Some full scale applications are described, to provide the reader with relevant guidelines to facilitate a future use of these methods.

Turbulent Combustion

Current Developments in Biotechnology and Bioengineering: Waste Treatment Processes for Energy Generation provides extensive research on the role of waste

management processes/technologies for energy generation. The enormous increase of waste materials generated by human activity and its potentially harmful effects on the environment and public health have led to an increasing awareness of an urgent need to adopt scientific methods for the safe disposal of wastes. This book outlines the basic knowledge, processes and technologies for the generation of energy from waste and functions as an important reference for academics and practitioners at varying levels of interest and knowledge. The book's content encompasses all issues for energy recovery from waste in a very clear and simple manner, acting as a comprehensive resource for anyone seeking an understanding on the topic. Outlines the latest technologies used for waste conversion into energy and facilitates project evaluation based on these technologies Summarizes the pros and cons of various processes Includes case studies and economic analysis

Introduction to High Performance Computing for Scientists and Engineers

If it is bilingualism that transfers information and ideas from culture to culture, it is the translator who systematizes and generalizes this process. The translator serves as a mediator of cultures. In this collection of essays, based on a conference held at the University of Hartford, a group of individuals – professional translators,

linguists, and literary scholars – exchange their views on translation and its power to influence literary traditions and to shape cultural and economic identities. The authors explore the implications of their views on the theory and craft of translation, both written and oral, in an era of unsettling globalizing forces.

Modern Physical Metallurgy

Lattice Boltzmann method (LBM) is a relatively new simulation technique for the modeling of complex fluid systems and has attracted interest from researchers in computational physics. Unlike the traditional CFD methods, which solve the conservation equations of macroscopic properties (i.e., mass, momentum, and energy) numerically, LBM models the fluid consisting of fictive particles, and such particles perform consecutive propagation and collision processes over a discrete lattice mesh. This book will cover the fundamental and practical application of LBM. The first part of the book consists of three chapters starting from the theory of LBM, basic models, initial and boundary conditions, theoretical analysis, to improved models. The second part of the book consists of six chapters, address applications of LBM in various aspects of computational fluid dynamic engineering, covering areas, such as thermo-hydrodynamics, compressible flows, multicomponent/multiphase flows, microscale flows, flows in porous media, turbulent flows, and suspensions. With these coverage LBM, the book intended to promote its applications, instead of the traditional computational fluid dynamic

method.

CCNP Security Secure 642-637 Official Cert Guide

The proceedings from Parallel CFD 2006 covers all aspects of parallel computings and its applications. Although CFD is one of basic tools for design procedures to produce machineries, such as automobiles, ships, aircrafts, etc., large scale parallel computing has been realized very recently, especially for the manufactures. Various applications in many areas could be experienced including acoustics, weather prediction and ocean modeling, flow control, turbine flow, fluid-structure interaction, optimization, heat transfer, hydrodynamics. - Report on current research in the field in an area which is rapidly changing - Subject is important to all interested in solving large fluid dynamics problems - Interdisciplinary activity. Contributions include scientists with a variety of backgrounds

Concepts, Strategies and Models to Enhance Physics Teaching and Learning

This is the second, enhanced and updated edition of an essential text for students of mechatronics. It covers both the detailed physical modeling of mechatronic

systems and their precise numerical simulation using the Finite Element (FE) method. New material includes a section discussing locking effects as occurring in the numerical computation of thin mechanical structures as well as a new chapter on computational aeroacoustics to study the complex phenomenon of flow induced noise.

Particulate Discrete Element Modelling

This book offers comprehensive information on the developments and applications of the solid phase microextraction (SPME) technique. The first part of the book briefly introduces readers to the fundamentals of SPME, while subsequent sections describe the applications of SPME technique in detail, including environmental analysis (air, water, soil/sediments), food analysis (volatile/nonvolatile compounds), and bioanalysis (plants, animal tissues, body fluids). The advantages and future challenges of the SPME technique are also discussed. Including recent research advances and further developments of SPME, the book offers a practical reference guide and a valuable resource for researchers and users of SPME techniques. The target audience includes analytical chemists, environmental scientists, biological scientists, material scientists, and analysts, as well as students at universities/institutes in related fields. Dr. Gangfeng Ouyang is a Professor at the School of Chemistry and Chemical Engineering, Sun Yat-sen University, China. Dr. Ruifen Jiang is an Associate Professor at the School of

Environment, Jinan University, China.

Current Developments in Biotechnology and Bioengineering

Chemical contaminants are a major concern for the food industry. Chemical contaminants and residues in food provides an essential guide to the main chemical contaminants, their health implications, the processes by which they contaminate food products, and methods for their detection and control. Part one focuses on risk assessment and analytical methods. Gas chromatography and mass spectroscopy techniques for the detection of chemical contaminants and residues are discussed, as are applications of HPLC-MS techniques and cell-based bioassays. Major chemical contaminants are then discussed in part two, including dioxins and polychlorinated biphenyls, veterinary drug and pesticide residues, heat-generated and non-thermally-produced toxicants, D- and cross-linked amino acids, mycotoxins and phycotoxins, and plant-derived contaminants. Finally, part three goes on to explore the contamination of specific foods. Chemical contamination of cereals, red meat, poultry and eggs are explored, along with contamination of finfish and marine molluscs. With its distinguished editor and international team of expert contributors, Chemical contaminants and residues in food is an invaluable tool for all industrial and academic researchers involved with food safety, from industry professionals responsible for producing safe food, to chemical analysts involved in testing the final products. Provides an essential guide to the main

chemical contaminants, their health implications, the processes by which they contaminate food products, and methods for their detection and control Sections provide in-depth focus on risk assessment and analytical methods, major chemical contaminants, and the contamination of specific foods Chemical contamination of cereals, red meat, poultry and eggs are explored, along with contamination of finfish and marine molluscs

Individual Diversity and Psychology in Organizations

Turbulent combustion sits at the interface of two important nonlinear, multiscale phenomena: chemistry and turbulence. Its study is extremely timely in view of the need to develop new combustion technologies in order to address challenges associated with climate change, energy source uncertainty, and air pollution. Despite the fact that modeling of turbulent combustion is a subject that has been researched for a number of years, its complexity implies that key issues are still eluding, and a theoretical description that is accurate enough to make turbulent combustion models rigorous and quantitative for industrial use is still lacking. In this book, prominent experts review most of the available approaches in modeling turbulent combustion, with particular focus on the exploding increase in computational resources that has allowed the simulation of increasingly detailed phenomena. The relevant algorithms are presented, the theoretical methods are explained, and various application examples are given. The book is intended for a

relatively broad audience, including seasoned researchers and graduate students in engineering, applied mathematics and computational science, engine designers and computational fluid dynamics (CFD) practitioners, scientists at funding agencies, and anyone wishing to understand the state-of-the-art and the future directions of this scientifically challenging and practically important field.

Drosophila: Methods and Protocols

The fields of organizational climate and organizational culture have co-existed for several decades with very little integration between the two. In *Organizational Climate and Culture: An Introduction to Theory, Research, and Practice*, Mark G. Ehrhart, Benjamin Schneider, and William H. Macey break down the barriers between these fields to encourage a broader understanding of how an organization's environment affects its functioning and performance. Building on in-depth reviews of the development of both the organizational climate and organizational culture literatures, the authors identify the key issues that researchers in each field could learn from the other and provide recommendations for the integration of the two. They also identify how practitioners can utilize the key concepts in the two literatures when conducting organizational cultural inquiries and leading change efforts. The end product is an in-depth discussion of organizational climate and culture unlike anything that has come before that provides unique insights for a broad audience of academics, practitioners, and

students.

Surgery of the Cranio-Vertebral Junction

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Trust the best selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. CCNP Security SECURE 642-637 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Master CCNP Security SECURE 642-637 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks CCNP Security SECURE 642-637 Official Cert Guide focuses specifically on the objectives for the CCNP Security SECURE exam. Senior networking consultants Sean Wilkins and Trey Smith share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of

exam topics. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the CCNP Security SECURE exam, including: Network security threats and foundation protection Switched data plane security 802.1X and identity-based networking services Cisco IOS routed data plane security Cisco IOS control plane security Cisco IOS management plane security NAT Zone-based firewalls IOS intrusion prevention system Cisco IOS site-to-site security solutions IPsec VPNs, dynamic multipoint VPNs, and GET VPNs SSL VPNs and EZVPN CCNP Security SECURE 642-637 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit www.cisco.com/go/authorizedtraining.

Solid Phase Microextraction

The combustion of fossil fuels remains a key technology for the foreseeable future. It is therefore important that we understand the mechanisms of combustion and, in particular, the role of turbulence within this process. Combustion always takes place within a turbulent flow field for two reasons: turbulence increases the mixing

process and enhances combustion, but at the same time combustion releases heat which generates flow instability through buoyancy, thus enhancing the transition to turbulence. The four chapters of this book present a thorough introduction to the field of turbulent combustion. After an overview of modeling approaches, the three remaining chapters consider the three distinct cases of premixed, non-premixed, and partially premixed combustion, respectively. This book will be of value to researchers and students of engineering and applied mathematics by demonstrating the current theories of turbulent combustion within a unified presentation of the field.

Callaloo or Tossed Salad?

Here is a basic introduction to Lattice Boltzmann models that emphasizes intuition and simplistic conceptualization of processes, while avoiding the complex mathematics that underlies LB models. The model is viewed from a particle perspective where collisions, streaming, and particle-particle/particle-surface interactions constitute the entire conceptual framework. Beginners and those whose interest is in model application over detailed mathematics will find this a powerful 'quick start' guide. Example simulations, exercises, and computer codes are included.

Dynamics of the Liquid State

The Korean Peninsula, which constitutes one of the strategic pivots of Northeast Asian security, has remained a contested theatre for major powers. Denuclearisation of the Peninsula is unfolding as one of the most defining challenges in shaping regional security. The end state in the Peninsula and how it is to be realised is debated amongst the stakeholders. This book aims to situate some of the critical issues in the Korean theatre within the competing geopolitical interests, strategic choices and policy debates among the major powers. This volume is an endeavour to bring together leading Indian experts including former Indian ambassadors to the Republic of Korea, senior members from the defence and strategic community to analyse the developing situation in the Korean Peninsula. The Korean Peninsula has remained a contested theatre for the major powers. Brutal wars have been fought involving imperial Japan, Czarist Russia, the Union of the Soviet Socialist Republics (USSR), Qing China, the People's Republic of China, and the United States (US) which left the Peninsula conquered, colonised, and divided, starting with Chosun (Yi) Korea from 1392-1910 to colonial Korea from 1910-45 to divided Korea since 1945.¹ Subsequently, the Korean War from 1950-53 defined the character of the Cold War in Northeast Asia. The strategic choices in the Korean theatre have been influenced by the competing geopolitical interests of regional stakeholders. In the post-Cold War era, the Peninsula remained a key variable in shaping the Northeast Asian security architecture since

the Democratic People's Republic of Korea or North Korea continued to employ the strategic use of nuclear brinksmanship.

The Lattice Boltzmann Method

Callaloo or Tossed Salad? is a historical and ethnographic case study of the politics of cultural struggle between two traditionally subordinate ancestral groups in Trinidad, those claiming African and Indian descent. Viranjini Munasinghe argues that East Indians in Trinidad seek to become a legitimate part of the nation by redefining what it means to be Trinidadian, not by changing what it means to be Indian. In her view, Indo-Trinidadians' recent and ongoing struggle for national and cultural identity builds from dissatisfaction with the place they were originally assigned within Trinidadian society. The author examines how Indo-Trinidadian leaders in Trinidad have come to challenge the implicit claim that their ethnic identity is antithetical to their national identity. Their political and cultural strategy seeks to change the national image of Trinidad by introducing Indian elements alongside those of the dominant Afro-Caribbean (Creole) culture. Munasinghe analyzes a number of broad theoretical issues: the moral, political, and cultural dimensions of identity; the relation between ethnicity and the nation; and the possible autonomy of New World nationalisms from European forms. She details how principles of exclusion continue to operate in nationalist projects that celebrate ancestral diversity and multiculturalism. Drawing on the insights of

theorists who use creolization to understand the emergence of Afro-American cultures, Munasinghe argues that Indo-Trinidadians can be considered Creole because they, like Afro-Trinidadians, are creators and not just bearers of culture.

Near Wall Turbulence

The coming of age of audiovisual translation studies has brought about a much-needed surge of studies focusing on the audience, their comprehension, appreciation or rejection of what reaches them through the medium of translation. Although complex to perform, studies on the reception of translated audiovisual texts offer a uniquely thorough picture of the life and afterlife of these texts. This volume provides a detailed and comprehensive overview of reception studies related to audiovisual translation and accessibility, from a diachronic and synchronic perspective. Focusing on all audiovisual translation techniques and encompassing theoretical and methodological approaches from translation, media and film studies, it aims to become a reference for students and scholars across these fields.

Modern Physical Metallurgy and Materials Engineering

In the engine development process, simulation and predictive programs have

continuously gained in reliance. Due to the complexity of future internal combustion engines the application of simulation programs towards a reliable “virtual engine development” is a need that represents one of the greatest challenges. Marco Chiodi presents an innovative 3D-CFD-tool, exclusively dedicated and optimized for the simulation of internal combustion engines. Thanks to improved or newly developed 3D-CFD-models for the description of engine processes, this tool ensures an efficient and reliable calculation also by using coarse 3D-CFD-meshes. Based on this approach the CPU-time can be reduced up to a factor 100 in comparison to traditional 3D-CFD-simulations. In addition an integrated and automatic “evaluation tool” establishes a comprehensive analysis of the relevant engine parameters. Due to the capability of a reliable “virtual development” of full-engines, this fast response 3D-CFD-tool makes a major contribution to the engine development process. Südwestmetall-Förderpreis 2010

Lattice Boltzmann Method And Its Application In Engineering

This book provides a unique tool for approaching crano-vertebral junction (CVJ) surgery. Following a brief introduction to the relevant anatomy and biomechanics of CVJ, it explores the field of crano-vertebral junction lesions and their management. Furthermore, individual chapters cover endovascular surgery, endoscopic skull base techniques, navigation and robotics, ensuring that surgeons stay up-to-date. A chapter addressing the consequences of CVJ surgery with regard

to sagittal balance is of particular importance. The book is structured according both to the type of lesion involving the CVJ (tumor, trauma), and to the type of surgical approach (anterior, posterior). Further, it reflects innovative treatment modalities that have improved patient safety and efficacy rates for surgery involving the CVJ, and covers both open and minimally invasive surgical methods, enabling surgeons to hone their skills in both areas.

Turbulent Combustion Modeling

Sustainable Construction Materials: Sewage Sludge Ash, part of a series of five, aims to promote the use of sustainable construction materials. It is different from the norm, with its uniqueness lying in the development of a data matrix sourced from over 600 publications and contributed by 1107 authors from 442 institutions in 48 countries from 1970 to 2016, all focusing on the subject of sewage sludge ash as a construction material, and systematically analyzing, evaluating, and modeling the information for use in cement, concrete, ceramics, geotechnics, and road pavement applications. Related environmental issues, case studies, and standards are also discussed. The book helps users avoid repetitive research and save valuable resources, giving them more latitude to explore new research to progress the use of sustainable construction materials. It is structured in an incisive and easy to digest manner. As an excellent reference source, the book is particularly suited for researchers, academics, design engineers, specifiers,

contractors, developers, and certifying and regulatory authorities who seek to promote sustainability within the construction sector. Provides an extensive source of valuable database information supported by an exhaustive and comprehensively organized list of globally published literature spanning 40-50 years, up to 2016, with 5000 references Offers an analysis, evaluation, repackaging, and modeling of existing knowledge, encouraging more responsible use of waste materials in construction Presents a wealth of knowledge for use in many sectors relating to the construction profession

The Method of Volume Averaging

The purpose of this volume is to investigate the languages of dubbing. The plural evokes the complex interplay of different codes as well as the numerous levels of analysis involved. The volume focuses on the languages of Anglophone films and television series and their dubbing into Italian while broadening the perspective to the general debate on audiovisual translation. Dubbing offers itself as a privileged place where languages interact in simulating, creating and recreating fictive orality and where influential linguistic and pragmatic conventions are generated and developed. The chapters cover a rich range of topics including syntactic, lexical and sociolinguistic features of audiovisual dialogue, cross-linguistic contrasts, and the translation of culture specific references and multilingualism on screen. The volume provides an updated picture of research on Italian dubbed language, a key

area of inquiry with reference to the investigation of telecinematic discourse, Audiovisual Translation and Corpus-based Translation Studies.

Financial Transmission Rights

Particulate discrete element analysis is becoming increasingly popular for research in geomechanics as well as geology, chemical engineering, powder technology, petroleum engineering and in studying the physics of granular materials. With increased computing power, practising engineers are also becoming more interested in using this technology for analysis in industrial applications. This is the first single work on Discrete Element Modelling (DEM) providing the information to get started with this powerful numerical modelling approach. Written by an independent author with experience both in developing DEM codes and using commercial codes, this book provides the basic details of the numerical method and the approaches used to interpret the results of DEM simulations. Providing a basic overview of the numerical method, Particulate Discrete Element Modelling discusses issues related to time integration and numerical stability, particle types, contact modelling and boundary conditions. It summarizes approaches to interpret DEM data so that users can maximize their insight into the material response using DEM. The aim of this book is to provide both users and prospective users of DEM with a concise reference book that includes tips to optimize their usage. Particulate Discrete Element Modelling is suitable both for first time DEM analysts as well as

more experienced users. It will be of use to professionals, researchers and higher level students, as it presents a theoretical overview of DEM as well as practical guidance on running DEM simulations and interpreting DEM simulation data.

Sustainable Construction Materials

This book brings together in a single volume various methods and skills for particle-scale or discrete-element numerical simulation of granular media. It covers a broad range of topics from basic concepts and methods towards more advanced aspects and technical details applicable to the current research on granular materials. Discrete-element simulations of granular materials are based on four basic models (molecular dynamics, contact dynamics, quasi-static and event driven) dealing with frictional contact interactions and integration schemes for the equations of dynamics. These models are presented in the first chapters of the book, followed by various methods for sample preparation and monitoring of boundary conditions, as well as dimensionless control parameters. Granular materials encountered in real life involve a variety of compositions (particle shapes and size distributions) and interactions (cohesive, hydrodynamic, thermal) that have been extensively covered by several chapters. The book ends with two applications in the field of geo-materials.

Parallel Computational Fluid Dynamics 2006

Teaching and Researching Listening provides a focused, state-of-the-art treatment of the linguistic, psycholinguistic and pragmatic processes that are involved in oral language use, and shows how these processes influence listening in a range of practical contexts. Through understanding the interaction between these processes, language educators and researchers can develop more robust research methods and more effective classroom language teaching approaches. In this fully revised and updated second edition, the book: examines a full range of teaching methods and research initiatives related to listening gives definitions of key concepts in neurolinguistics and psycholinguistics provides a clear agenda for implementing listening strategies and designing tests offers an abundance of resources for immediate use for teaching and research Featuring insightful quotes and concept boxes, chapter overviews and summaries to guide the reader, Teaching and Researching Listening will engage and inform teachers, teacher trainers and researchers investigating communicative language use.

Chemical Contaminants and Residues in Food

The Routledge Handbook of Audiovisual Translation provides an accessible, authoritative and comprehensive overview of the key modalities of audiovisual

translation and the main theoretical frameworks, research methods and themes that are driving research in this rapidly developing field. Divided in four parts, this reference work consists of 32 state-of-the-art chapters from leading international scholars. The first part focuses on established and emerging audiovisual translation modalities, explores the changing contexts in which they have been and continue to be used, and examines how cultural and technological changes are directing their future trajectories. The second part delves into the interface between audiovisual translation and a range of theoretical models that have proved particularly productive in steering research in audiovisual translation studies. The third part surveys a selection of methodological approaches supporting traditional and innovative ways of interrogating audiovisual translation data. The final part addresses an array of themes pertaining to the place of audiovisual translation in society. This Handbook gives audiovisual translation studies the platform it needs to raise its profile within the Humanities research landscape and is key reading for all those engaged in the study and research of Audiovisual Translation within Translation studies.

Numerical Simulation of Mechatronic Sensors and Actuators

Located in the Oklahoma Collection.

Multiscale and Multiresolution Approaches in Turbulence

Parallel Programming: Concepts and Practice provides an upper level introduction to parallel programming. In addition to covering general parallelism concepts, this text teaches practical programming skills for both shared memory and distributed memory architectures. The authors' open-source system for automated code evaluation provides easy access to parallel computing resources, making the book particularly suitable for classroom settings. Covers parallel programming approaches for single computer nodes and HPC clusters: OpenMP, multithreading, SIMD vectorization, MPI, UPC++ Contains numerous practical parallel programming exercises Includes access to an automated code evaluation tool that enables students the opportunity to program in a web browser and receive immediate feedback on the result validity of their program Features an example-based teaching of concept to enhance learning outcomes

Flight Vehicle Aerodynamics

For many years, various editions of Smallman's Modern Physical Metallurgy have served throughout the world as a standard undergraduate textbook on metals and alloys. In 1995, it was rewritten and enlarged to encompass the related subject of materials science and engineering and appeared under the title Metals & Materials:

Science, Processes, Applications offering a comprehensive amount of a much wider range of engineering materials. Coverage ranged from pure elements to superalloys, from glasses to engineering ceramics, and from everyday plastics to in situ composites, Amongst other favourable reviews, Professor Bhadeshia of Cambridge University commented: "Given the amount of work that has obviously gone into this book and its extensive comments, it is very attractively priced. It is an excellent book to be recommend strongly for purchase by undergraduates in materials-related subjects, who should benefit greatly by owning a text containing so much knowledge." The book now includes new chapters on materials for sports equipment (golf, tennis, bicycles, skiing, etc.) and biomaterials (replacement joints, heart valves, tissue repair, etc.) - two of the most exciting and rewarding areas in current materials research and development. As in its predecessor, numerous examples are given of the ways in which knowledge of the relation between fine structure and properties has made it possible to optimise the service behaviour of traditional engineering materials and to develop completely new and exciting classes of materials. Special consideration is given to the crucial processing stage that enables materials to be produced as marketable commodities. Whilst attempting to produce a useful and relatively concise survey of key materials and their interrelationships, the authors have tried to make the subject accessible to a wide range of readers, to provide insights into specialised methods of examination and to convey the excitement of the atmosphere in which new materials are conceived and developed.

Lattice Boltzmann Modeling

The purpose of this book is to present a comprehensive account of the physical concepts and theoretical approaches developed for the study of the dynamical properties of liquids (or more generally, of high-density fluids) at a microscopic level. After a discussion of the basic dynamical phenomena to be investigated, as well as of the various experimental probes, the book gradually exposes the reader to the sophisticated theoretical techniques needed for a satisfactory account of both single particle and collective motions. The complications are faced in a stepwise fashion, with special attention to the physical content of the results. As a result of the progress achieved in the last decade, in the end a satisfactory understanding of most of the phenomena characterizing this fascinating field emerges.

Linguistic and Cultural Representation in Audiovisual Translation

Modern Physical Metallurgy, Fourth Edition discusses the fundamentals and applications of physical metallurgy. The book is comprised of 15 chapters that cover the experimental background of a metallurgical phenomenon. The text first talks about the structure of atoms and crystals, and then proceeds to dealing with

the physical examination of metals and alloys. The third chapter tackles the phase diagrams and solidifications, while the fourth chapter covers the thermodynamics of crystals. Next, the book discusses the structure of alloys. The next four chapters deal with the deformations and defects of crystals, metals, and alloys. Chapter 10 discusses work hardening and annealing, while Chapters 11 and 12 cover phase transformations. The succeeding two chapters talk about creep, fatigue, and fracture, while the last chapter covers oxidation and corrosion. The text will be of great use to undergraduate students of materials engineering and other degrees that deal with metallurgical properties.

Reception Studies and Audiovisual Translation

An overview of the physics, concepts, theories, and models underlying the discipline of aerodynamics.

Parallel Programming

Multiphase systems dominate nearly every area of science and technology, and the method of volume averaging provides a rigorous foundation for the analysis of these systems. The development is based on classical continuum physics, and it provides both the spatially smoothed equations and a method of predicting the

effective transport coefficients that appear in those equations. The text is based on a ten-week graduate course that has been taught for more than 20 years at the University of California at Davis and at other universities around the world. Problems dealing with both the theoretical foundations and the applications are included with each chapter, and detailed solutions for all problems are available from the author. The course has attracted participants from chemical engineering, mechanical engineering, civil engineering, hydrologic science, mathematics, chemistry and physics.

Discrete-element Modeling of Granular Materials

This collection of essays offers a multi-faceted exploration of audiovisual translation, both as a means of intercultural exchange and as a lens through which linguistic and cultural representations are negotiated and shaped. Examining case studies from a variety of media, including film, television, and video games, the volume focuses on different modes of audiovisual translation, including subtitling and dubbing, and the representations of linguistic and stylistic features, cultural mores, gender, and the translation process itself embedded within them. The book also meditates on issues regarding accessibility, a growing concern in audiovisual translation research. Rooted in the most up-to-date issues in both audiovisual translation and media culture today, this volume is essential reading for students and scholars in translation studies, film studies, television studies, video game

studies, and media studies.

C Is for Cure

Written by high performance computing (HPC) experts, Introduction to High Performance Computing for Scientists and Engineers provides a solid introduction to current mainstream computer architecture, dominant parallel programming models, and useful optimization strategies for scientific HPC. From working in a scientific computing center, the author

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