



Scientific citizenship and risk -- Historical antecedents : gender and the environment -- Explaining the crisis : trust and experts after the nuclear accident -- The production and circulation of radiation data -- Farming after the nuclear accident -- Finding safe food : mothers and networks of trust

Oni, ubiquitous supernatural figures in Japanese literature, lore, art, and religion, usually appear as demons or ogres. Characteristically threatening, monstrous creatures with ugly features and fearful habits, including cannibalism, they also can be harbingers of prosperity, beautiful and sexual, and especially in modern contexts, even cute and lovable. There has been much ambiguity in their character and identity over their long history. Usually male, their female manifestations convey distinctively gendered social and cultural meanings. Oni appear frequently in various arts and media, from Noh theater and picture scrolls to modern fiction and political propaganda. They remain common figures in popular Japanese anime, manga, and film and are becoming embedded in American and international popular culture through such media. Noriko Reider's book is the first in English devoted to oni. Reider fully examines their cultural history, multifaceted roles, and complex significance as "others" to the Japanese.

The crystal chemistry of spin crossover (SCO) behavior in coordination compounds can potentially be in association with smart materials—promising materials for applications as components of memory devices, displays, sensors and mechanical devices and, especially, actuators, such as artificial muscles. This Special Issue is devoted to various aspects of SCO and related research, comprising 18 interesting original papers on valuable and important SCO topics. Significant and fundamental scientific attention has been focused on the SCO phenomena in a wide research range of fields of fundamental chemical and physical and related sciences, containing the interdisciplinary regions of chemical and physical sciences related to the SCO phenomena. Coordination materials with bistable systems between the LS and the HS states are usually triggered by external stimuli, such as temperature, light, pressure, guest molecule inclusion, soft X-ray, and nuclear decay. Since the first Hofmann-like spin crossover (SCO) behavior in  $\{Fe(py)_2[Ni(CN)_4]\}_n$  (py = pyridine) was demonstrated, this crystal chemistry motif has been frequently used to design Fe(II) SCO materials to enable determination of the correlations between structural features and magnetic properties.

about the involvement of signaling Transforming growth factor in tumor development and metastasis. plays a central role in the signaling network that controls morphogenesis, 2. THE BASICS OF growth and cell differentiation in SIGNALING multicellular organisms. The different members of this pleiotropic family of 2. 1. receptor signaling growth and differentiation factors seem to The family of growth factors regulate many processes in human disease consists of more than thirty members in and, in particular, tumor development. humans alone (15, 16). They cluster in Our understanding of how two major groups, the group composed of initiated signals are mediated has both the bone morphogenetic proteins increased dramatically in the last fifteen (BMP) and growth and differentiation years. Firstly, the prototype of factors (GDFs), and the group formed by this still constantly growing family, was the Activins, and Nodals. The two identified and cloned (1). Secondly, the groups differ in their use of receptors for family receptors were transmembrane receptors and the identified by expression cloning from subsequent activation of the mammalian tissue culture (2-7). Thirdly, transcriptional mediators (for recent genetic screens in *Drosophila* reviews see (13, 14, 17)).

Applications of optical switching in network elements and communication networks are discussed in considerable depth. Optical circuits, packet, and burst switching are all included.

Composed of distinct self-contained chapters with minimum overlaps and independent references. Provides up-to-date comprehensive coverage of optical switching, technologies, devices, systems and networks. Discusses applications of optical switching in network elements and communications networks.

Deciding when and how to retire are among the most important decisions most people make. Can they be depended on to plan with foresight and make sound decisions? According to standard economic analysis the answer is a qualified "yes." But studies by psychologists, sociologists, and economists themselves raise doubts about this comforting appraisal. This volume by analysts trained in economics and other disciplines suggests that retirement planning and decisions fall far short of the rational ideal. Gary Burtless explains what economic research has to say about retirement behavior. Annamaria Lusardi reports that many people in their fifties and older say they have not even thought about retirement. Mathey Rabin and Ted O'Donoghue show that procrastination can cause huge economic losses. Robert Axtell and Joshua Epstein show that herd behavior explains observed patterns of retirement behavior better than does the assumption of rational decisionmaking. George Loewenstein, Drazen Prelec, and Roberto Weber report that many people incorrectly anticipate what retirement will be like and rationalize whatever decision they have made. David Fetherstonhaugh and Lee Ross report experimental evidence that the effect of Social Security provisions may depend on how these policies are "framed" as well as on the specific content of those policies. These and other authors also explore the broader implications of these behavioral patterns. Copublished with Russell Sage Foundation

This book is the first to introduce a mesoscale polymer simulation system called OCTA. With its name derived from "Open Computational Tool for Advanced material technology," OCTA is a unique software product, available without charge, that was developed in a project funded by Japanese government. OCTA contains a series of simulation programs focused on mesoscale simulation of the soft matter COGNAC, SUSHI, PASTA, NAPLES, MUFFIN, and KAPSEL. When mesoscale polymer simulation is performed, one may encounter many difficulties that this book will help to overcome. The book not only introduces the theoretical background and functions of each simulation engine, it also provides many examples of the practical applications of the OCTA system. Those examples include predicting mechanical properties of plastic and rubber, morphology formation of polymer blends and composites, the micelle structure of surfactants, and optical properties of polymer films. This volume is strongly recommended as a valuable resource for both academic and industrial researchers who work in polymer simulation. This book reports the results from on-site research into radioactive cesium contamination in various agricultural systems affected by the Fukushima Daiichi Nuclear Power Plant accident that occurred in March 2011. This is the second volume from the research groups formed in the Graduate School of Agricultural and Life Sciences of The University of Tokyo who have published the initial data in their first volume. In this book, additional data collected in the subsequent years are presented to show how the radioactivity level in agricultural products and their growing environments have changed with time. The data clarify the route by which radioactive materials entered agricultural products and their movement among different components (e.g., soil, water, and trees) within an environmental system (e.g., forests). The book consists of various topics, including radioactivity inspection of food products; decontamination trials for rice and livestock production; the state of contamination in wild animals and birds, trees, mushrooms, and timber; the dynamics of radioactivity distribution in mountain and paddy fields; damage incurred by the forestry and fishery industries; and the change in consumers' minds. The last chapter introduces a real-time radioisotope imaging system, the forefront technique to visualize actual movement of cesium in soil and in plants. This is the only book to provide systematic data about the actual change of radioactivity, and thus is of great value for all researchers who wish to understand the effect of radioactive fallout on agriculture. The project is ongoing; the research groups continue their work in the field for further evaluation of the long-term effects.

This book studies the three concepts of translation, education and innovation from a Nordic and international perspective on Japanese and Korean societies. It presents findings from pioneering research into cultural translation, Japanese and Korean linguistics, urban development, traditional arts, and related fields. Across recent decades, Northern European scholars have shown increasing interest in East Asia. Even though they are situated on opposite sides of the Eurasia landmass, the Nordic nations have a great deal in common with Japan and Korea, including vibrant cultural traditions, strong educational systems, and productive social democratic economies. Taking a cross-cultural and interdisciplinary approach, and in addition to the examination of the three key concepts, the book explores several additional intersecting themes, including sustainability, nature, humour, aesthetics, cultural survival and social change, discourse and representation. This book offers a collection of original interdisciplinary research from the 25th anniversary conference of the Nordic Association for Japanese and Korean Studies (2013). Its 21 chapters are divided into five parts according to interdisciplinary themes: Translational Issues in Literature, Analyses of Korean and Japanese Languages, Language Education, Innovation and New Perspectives on Culture, and The Arts in Innovative Societies.

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 volume presents a comprehensive survey of the lexicon and word formation processes in contemporary Japanese, with particular emphasis on their typologically characteristic features and their interactions with syntax and semantics. Through contacts with a variety of languages over more than two thousand years of history, Japanese has developed a complex vocabulary system that is composed of four lexical strata: (i) native Japanese, (ii) mimetic, (iii) Sino-Japanese, and (iv) foreign (especially English). This hybrid composition of the lexicon, coupled with the agglutinative character of the language by which morphology is closely associated with syntax, gives rise to theoretically intriguing interactions with word formation processes that are not easily found with inflectional, isolate, or polysynthetic types of languages.

This book is a printed edition of the Special Issue "AR Signaling in Human Malignancies: Prostate Cancer and Beyond" that was published in *Cancers*

This book brings together the latest knowledge on moyamoya disease, covering diagnostic criteria, status as a disease entity, genetic aspects, pathophysiology, novel neuroradiological findings, and surgical therapy. Information is also provided on recent basic and clinical research with the aim of identifying future perspectives on the disease. Since moyamoya disease was first reported in an English language article more than 50 years ago, our understanding of it has advanced considerably. Genetic and radiological analysis has delivered novel insights, and the latest multicenter studies are changing routine diagnosis and surgical therapy. The gene encoding the ring finger protein 213 (RNF213) has been identified as a susceptibility gene for moyamoya disease. Indications and procedures for surgical revascularization have been revised, with resultant improvements in outcomes, and studies performed over the past decade have provided new knowledge on the neuroradiological findings before and after surgery. In describing these advances, this book will be an invaluable asset for all general physicians, pediatricians, neurologists, radiologists, and neurosurgeons who care for patients with moyamoya disease across the world.

This book is a clinical manual that covers the whole spectrum of swallowing and its disorders. It starts with physiology of swallowing, pathophysiology of disordered deglutition, diagnostic methods (clinical and instrumental) and ends with an in-depth's and up-to-date presentation of current treatment options. The clinically most relevant topics of dysphagia management on the stroke unit and the intensive care unit are dealt with in separate chapters. Also the closely intertwined issue of nutritional management is specifically addressed. Most importantly, the book covers all obligatory topics of the Flexible Endoscopic Evaluation of Swallowing (FEES)-curriculum, an educational initiative that started in Germany in 2014 and is currently being extended to other European and non-European countries. The book is richly illustrated and an online video section provides a number of typical patient cases. FEES is probably the most commonly chosen method for the objective assessment of swallowing and its disorders. It is used in stroke units, intensive care facilities, geriatric wards but also in rehabilitation clinics and within dedicated outpatient services. This book on neurogenic dysphagia therefore addresses a wide range of different medical disciplines, such as neurologists, geriatricians, intensive care physicians, rehabilitation physicians, gastroenterologists, otolaryngologists, phoniatrists and also speech-language pathologists.

This book is one out of 8 IAEG XII Congress volumes, and deals with Landslide processes, including: field data and monitoring techniques, prediction and forecasting of landslide occurrence, regional landslide inventories and dating studies, modeling of slope instabilities and secondary hazards (e.g. impulse waves and landslide-induced tsunamis, landslide dam failures and breaching), hazard and risk assessment, earthquake and rainfall induced landslides, instabilities of volcanic edifices, remedial works and mitigation measures, development of innovative stabilization techniques and applicability to specific engineering geological conditions, use of geophysical techniques for landslide characterization and investigation of triggering mechanisms. Focuses is given to innovative techniques, well documented case studies in different environments, critical components of engineering geological and geotechnical investigations, hydrological and hydrogeological investigations, remote sensing and geophysical techniques, modeling of triggering, collapse, run out and landslide reactivation, geotechnical design and construction procedures in landslide zones, interaction of landslides with structures and infrastructures and possibility of domino effects. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress: environment, processes, issues, and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: Climate Change and Engineering Geology. Landslide Processes. River Basins, Reservoir Sedimentation and Water Resources. Marine and Coastal Processes. Urban Geology, Sustainable Planning and Landscape Exploitation. Applied Geology

for Major Engineering Projects. Education, Professional Ethics and Public Recognition of Engineering Geology. Preservation of Cultural Heritage.

After a very successful series of eight previous treatment guides, it seems logical to think about our patients as they grow older and may become frail and more dependent on care. Volume 9 of the ITI Treatment Guide attests to the ITI's holistic approach to implant dentistry and to its professional responsibility for patients who have aged with implant-supported restorations in place, as well as for patients at a more advanced age who, until late in life, can benefit from the progress we have made in terms of the materials and techniques that present-day implant dentistry has to offer. The ITI Treatment Guide series is a compendium of evidence-based implant-therapy techniques and procedures for daily practice. Written by renowned clinicians and supported by contributions from expert practitioners, the ITI Treatment Guides provide a comprehensive overview of various clinical options. The management of different clinical situations is discussed with an emphasis on sound diagnostics, evidencebased treatment concepts, and predictable treatment outcomes with minimal risk to the patient.

This book covers major technological advancements in, and evolving applications of, thermal and photovoltaic solar energy systems. Advances in technologies for harnessing solar energy are extensively discussed, with topics including the fabrication, compaction and optimization of energy grids, solar cells and panels. Leading international experts discuss the applications, challenges and future prospects of research in this increasingly vital field, providing a valuable resource for all researchers working in this field.

This volume, grounded on usage-based models of language, is an edited collection of empirical research examining how cognitive linguistics can advance Japanese pedagogy. Each chapter presents an acquisition or classroom study which focuses on challenging features and leads instructors and researchers into new realms of analysis by showing innovative views and practices resulting in better understanding and improved L2 learning of Japanese.

A history of the Korean War with soldier's-eye views from both sides, by the Pulitzer Prize-winning author of *The Rising Sun and Infamy*. Pulitzer Prize-winning author John Toland reports on the Korean War in a revolutionary way in this thoroughly researched and riveting book. Toland pored over military archives and was the first person to gain access to previously undisclosed Chinese records, which allowed him to investigate Chairman Mao's direct involvement in the conflict. Toland supplements his captivating history with in-depth interviews with more than two hundred American soldiers, as well as North Korean, South Korean, and Chinese combatants, plus dozens of poignant photographs, bringing those who fought to vivid life and honoring the memory of those lost. *In Mortal Combat* is comprehensive in its discussion of events deemed controversial, such as American brutality against Korean civilians and allegations of American use of biological warfare. Toland tells the dramatic account of the Korean War from start to finish, from the appalling experience of its POWs to Mao's prediction of MacArthur's Inchon invasion. Toland's account of the "forgotten war" is a must-read for any history aficionado.

"This book tells the story of an unusual group of American soldiers in World War II, second-generation Japanese Americans (Nisei) who served as interpreters and translators in the Military Intelligence Service."--Preface.

Compiling the most influential papers from the *IEICE Transactions in Communications*, *High-Performance Backbone Network Technology* examines critical breakthroughs in the design and provision of effective public service networks in areas including traffic control, telephone service, real-time video transfer, voice and image transmission for a content delivery network (CDN), and Internet access. The contributors explore system structures, experimental prototypes, and field trials that herald the development of new IP networks that offer quality-of-service (QoS), as well as enhanced security, reliability, and function. Offers many hints and guidelines for future research in IP and photonic backbone network technologies

This richly illustrated book draws on recently acquired knowledge to provide the reader with comprehensive, up-to-date information on the full range of obstetric complications that may be encountered during the first and second trimesters of pregnancy. For all complications, including those potentially involved in malpractice issues, risk factors and clinical presentation are described and detailed guidance is provided on the appropriate treatment. The lucid text is complemented by a wealth of images, diagrams, flow charts, and drawings. The volume has been compiled in collaboration with a large group of gynecologists, obstetricians and internationally renowned scientists to provide an essential guide. Accordingly, this book will be a valuable tool for every obstetrician and gynecologist. Practitioners across the world will be enabled to deepen their knowledge and to refine their approach to complications in daily clinical practice.

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