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Small States in the Modern World

2015-11-27 Harald Baldersheim Small States in the Modern World comprehensively assesses the different modes of adaptation by small states in response to the security and economic vulnerabilities posed by global change. It uses a diverse collection of case studies to explore the complexities of change and to place them in their temporal and geographical context. Issues covered include: • international security and economic vulnerability • small states in international organizations, including the European Union • Quebec and Scotland as autonomous nations but not independent states • different modes of adaptation including market liberalism, social concertation and the management of natural resources. These contributions from renowned authors show that small states need external shelter and internal buffers in order to cope with vulnerability. Although many of the responses are path-dependent, driven by historical legacies, there is scope to choose. This compelling discussion of adaptations of small states will prove invaluable to scholars in political science, international relations and regional studies, as well as policy-makers and in particular those working in small states and would-be states.

Recent advances in Pancreatology

2014-11-19 Atsushi Masamune Pancreatic diseases include intractable ones including acute and chronic pancreatitis, and pancreatic cancer. In recent years, great advances have been made in the field of pancreatology, including the pathogenesis, diagnostic modalities, and development of novel therapeutic interventions. It has been established that pancreatic stellate cells play a pivotal role in the development of pancreatic fibrosis in chronic pancreatitis as well as in pancreatic cancer known as desmoplastic reaction. Although it might be still controversial, accumulating evidence has shown that interaction between pancreatic stellate cells-cancer cells contribute to the progression of pancreatic cancer through the increased proliferation and migration, and production of cytokines and extracellular matrix components. In addition, pancreatic stellate cells lead to the resistance to chemotherapy and radiation therapy. Pancreatic stellate cells attract the researchers as a novel therapeutic target of pancreatic cancer. Genetic studies have shown that mutations in the trypsin-related genes such as cationic trypsinogen (PRSS1) gene and the serine protease inhibitor, Kazal type 1 (SPINK1) gene are associated with pancreatitis. In general, each of these factors appears to limit trypsin activation or enhance inactivation, and is believed to increase intrapancreatic trypsin activity and predispose to pancreatitis when the gene is mutated. These results have supported a concept that pancreatic protease/anti-protease plays pivotal roles in the pathogenesis of pancreatitis. In addition, genetic studies focusing on phenotypic variances would provide us with important information how genetic variants would affect the phenotypic variances. Autophagy is an intracellular bulk degradation system in which cytoplasmic components are directed to the lysosome/vacuole by a membrane-mediated process. Recent studies have highlighted a role of autophagy in acute pancreatitis. Using a conditional knockout mouse that lacks the autophagy-related (Atg) gene Atg5 in the pancreatic acinar cells, autophagy exerts a detrimental effect in pancreatic acinar cells by activation of trypsinogen to trypsin. A theory in which autophagy accelerates trypsinogen activation by lysosomal hydrolases under acidic conditions, thus triggering acute pancreatitis in its early stage. The epithelial-mesenchymal transition is a developmental process that allows a polarized epithelial cell to undergo multiple biochemical changes that enable it to assume a mesenchymal phenotype. The phenotype associated with epithelial-mesenchymal transition includes enhanced migratory capacity, invasiveness, elevated resistance to apoptosis, and greatly increased production of extracellular matrix components. In addition to its role in development, tissue regeneration, and fibrosis, epithelial-mesenchymal transition is now considered as a critical process in cancer progression. Induction of epithelial-mesenchymal transition in cancer cells results in the acquisition of invasive and metastatic properties. Epithelial-mesenchymal transition could be an important mechanism in the progression of pancreatic cancer and its poor prognosis. Autoimmune pancreatitis is a unique form of pancreatitis in which autoimmune mechanisms are suspected to be involved in the pathogenesis. There is accumulating study to deal with this new disease concept. In addition to these topics, we have selected several topics in pancreatology, focusing on recent studies increasingly deepening our knowledge in both basic and clinical researches.

Handbook on Migration and Welfare

2022-01-14 Crepaz, Markus M.L. Bringing together prominent scholars in the field, this Handbook provides an interdisciplinary exploration of the complex interrelationship between migration and welfare. Chapters further examine the effects of emigration on sending societies exploring issues such as the impact of remittances, diasporas, and skill deterioration as a result of human capital flight on capacity building and on economic and political development more generally.

Practical Support for Lean Six Sigma Software Process Definition

2012-04-25 Susan K. Land Practical Support for Lean Six Sigma Software Process Definition: Using IEEE Software Engineering Standards addresses the task of meeting the specific documentation requirements in support of Lean Six Sigma. This book provides a set of templates supporting the documentation required for basic software project control and management and covers the integration of these templates for their entire product development life cycle. Find detailed documentation guidance in the form of organizational policy descriptions, integrated set of deployable document templates, artifacts required in support of assessment, organizational delineation of process documentation.

DANCE/MOVEMENT THERAPISTS IN ACTION

2012-03-01 Robyn Flaum Cruz This updated and expanded new edition continues the theme of the first edition that presents a spectrum of research alternatives that can inform clinical practice, inspire the

clinician, and guide scholarly dance/movement therapy (DMT) research. It highlights two basic research frameworks— quantitative (objective) and qualitative (interpretative)—including their underlying philosophic and theoretical tenets. The book is divided into four sections. Section 1 provides a sequential guide to the contents of the volume and establishes a rationale for the relevance of research to the field of dance/movement therapy. Section 2 explores the “Traditional Methods and Research Considerations” and is primarily devoted to experimental designs and the alternatives within the quantitative research paradigm. Section 3 addresses varying modes of qualitative approaches, and the interpretive designs that continue to evolve to meet the changing conditions of research inquiry in the arts and behavioral sciences. Section 4 comprises chapters that examine research alternatives and growing trends. These chapters include a spectrum of research models and methods such as evaluation research, embodied artistic inquiry, and mixing qualitative and quantitative methods in a single study. Throughout the book, many examples are given that provide knowledge and awareness of the living body, the diverse ways of working, and the importance of creative expression and integration. In addition, creative alternatives and options, artistic inquiry, single-subject design (SSD), individual case study, issues of reliability and validity, interviews, observations, and content analysis are explored that will assist the dance/movement therapist. This text will be an accessible introduction for students and interns as well as a useful guide for seasoned professionals.

Official Gazette of the United States Patent and Trademark Office

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Essential Calculus

2012-02-10 James Stewart This book is for instructors who think that most calculus textbooks are too long. In writing the book, James Stewart asked himself: What is essential for a three-semester calculus course for scientists and engineers? ESSENTIAL CALCULUS, Second Edition, offers a concise approach to teaching calculus that focuses on major concepts, and supports those concepts with precise definitions, patient explanations, and carefully graded problems. The book is only 900 pages--two-thirds the size of Stewart's other calculus texts, and yet it contains almost all of the same topics. The author achieved this relative brevity primarily by condensing the exposition and by putting some of the features on the book's website, www.StewartCalculus.com. Despite the more compact size, the book has a modern flavor, covering technology and incorporating material to promote conceptual understanding, though not as prominently as in Stewart's other books. ESSENTIAL CALCULUS features the same attention to detail, eye for innovation, and meticulous accuracy that have made Stewart's textbooks the best-selling calculus texts in the world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A Critical Review of Thermodynamics

1970 Edward Bernard Stuart

International Biotechnology Directory

2016-01-07 J. Coombs This directory provides the reader with quick-access to information on more than 8000 companies, research centres and academic institutions involved in new and established technologies. This edition offers more than 600 all-new organization listings, including new listings in Europe.

Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2006

2005 United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Labor, Health and Human Services, Education, and Related Agencies

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