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The Baccalaureate American Psychiatric Pub  
Breath-hold diving marine mammals are able to remain submerged for prolonged periods of time and dive to phenomenal depths while foraging. A number of physiological, biochemical and behavioral traits have been suggested that enable this life style, including the diving response, lung collapse, increased O<sub>2</sub> stores, diving induced hypometabolism, and stroke-and-glide behavior to reduce dive

metabolic cost. Since the initial studies by Scholander in the 1940 ' s, when most of the physiological and biochemical traits were suggested, few have received as much study as the diving response and O<sub>2</sub> management. The calculated aerobic dive limit (cADL) was an important concept which allowed calculation of the aerobic dive duration, and was defined as the total O<sub>2</sub> stores divided by the rate of O<sub>2</sub> consumption (metabolic rate). The total O<sub>2</sub> stores have been defined for several species, and studies in both forced and freely diving animals have refined the metabolic cost of diving. Currently there appears to be little consensus about whether marine mammals perform a significant proportion of dives exceeding the cADL or not and there may be large differences between species. The diving

response is a conserved physiological trait believed to arise from natural selection. The response includes diving-induced bradycardia, peripheral vasoconstriction, and altered blood flow distribution. While the response results in reduced cardiac work, it is not clear whether this is required to reduce the overall metabolic rate. An alternate hypothesis is that the primary role of the diving bradycardia is to regulate the degree of hypoxia in skeletal muscle so that blood and muscle O<sub>2</sub> stores can be used more efficiently. Scholander suggested that the respiratory anatomy of marine mammals resulted in alveolar collapse at shallow depths (lung collapse), thereby limiting gas exchange. This trait would limit uptake of N<sub>2</sub> and thereby reduce the risk of inert gas bubble formation

and decompression sickness. In his initial treatise, Scholander suggested that alveolar collapse probably made inert gas bubble formation unlikely during a single dive, but that repeated dives could result in significant accumulation that could be risky. Despite this, lung collapse has been quoted as the main adaptation by which marine mammals reduce N<sub>2</sub> levels and inert gas bubble formation. It was surprising, therefore, when recent necropsy reports from mass stranded whales indicated DCS like symptoms. More recent studies have shown that live marine mammals appear to experience bubbles under certain circumstances. These results raise some interesting questions. For example, are marine mammals ever at risk of DCS, and if so could N<sub>2</sub> accumulation limit dive performance? While an impressive number of studies have provided a theoretical framework that explains the mechanistic basis of the diving response, and O<sub>2</sub> management, many questions remain, some widely-accepted ideas actually lack sufficient experimental confirmation, and a variety of marine mammal species, potentially novel models for elucidating new diving adaptations, are understudied. The aim of this Frontiers Topic

is to provide a synthesis of the current knowledge about the physiological responses of marine mammals that underlie their varied dive behavior. We also include novel contributions that challenge current ideas and that probe new hypotheses, utilize new experimental approaches, and explore new model species. We show that the field has recently entered a phase of renewed discovery that is not only unraveling more secrets of the natural diving response but will drive new applications to aid human exploration of the ocean depths. We also welcome comparative analyses, especially contributions that compare marine mammals with human divers.

*Applications to Schools, Well-Being, Coping, and Internet Use*  
Routledge

This text bridges gaps in the literature by offering an edited collection of contemporary research contributions that explore the complex nature of rural enterprise across a range of settings and geographical contexts. In particular, this book includes up to date policy

contributions, as well as valuable insights into rural enterprise in practice.

### **Atlas of Our Changing Environment**

Emerald Group Publishing

Um erfolgreich forschend lernen zu können, müssen Schülerinnen und Schüler bestimmte Handlungsweisen erlernen und einüben. In einer Prä-Post-Studie zum Strategielernen wurden das hypothesengeleitete Experimentieren und die Control-of-Variables-Strategie zunächst vermittelt. Danach sollten diese Strategien in zwei Experimentierumgebungen, unterstützt durch z.B. Prompts, angewandt werden. Da sowohl reale Experimente als auch Computersimulationen zum Strategielernen eingesetzt werden können, wurden vier Treatmentgruppen (real-real, real-virtuell, virtuell-real, virtuell-virtuell) miteinander verglichen. Neben Kontrollvariablen wie kognitive Fähigkeiten und Motivation wurden prä-post das Fachwissen, Wissen zum Experimentieren und Wissen zum Strategieeinsatz gemessen. Während des Experimentierens wurden die Schülerinnen und Schüler (8. Klasse, Gymnasium, NRW)

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beobachtet, um herauszufinden, inwiefern sich das Arbeiten mit realen und virtuellen Experimenten unterscheidet und inwiefern diese Unterschiede eventuelle Unterschiede im Lernzuwachs erklären können. Die Ergebnisse zeigen, dass trotz sehr unterschiedlichen Arbeitens mit realen und virtuellen Experimenten alle Treatmentgruppen deutliche Lernzuwächse aufzeigen.

Handbook of Positive Emotions  
Elsevier Health Sciences

This book covers the recent progress in fiber-optic communication systems with a main focus on the impact of fiber nonlinearities on the system performance. Over the past few years, there has been significant progress in coherent communication systems mainly because of the advances in digital signal processing techniques. This has led to renewed interest in fiber linear and nonlinear impairments and techniques to mitigate them in electrical domain. In this book, the reader will find all the important

topics of fiber optic communication systems in one place with in-depth coverage by the experts of each subtopics. Pioneers from each of the sub-topics have been invited to contribute. Each chapter will have a section on fundamentals, review of literature survey and the recent developments. The reader will benefit from this approach since many of the conference proceedings and journal articles mainly focus on the authors ' research work without spending space on preliminaries. *Office Evaluation and Management of the Adult Patient* John Wiley & Sons  
The Handbook of Risk and Crisis Communication explores the scope and purpose of risk, and its counterpart, crisis, to facilitate the understanding of these issues from conceptual and strategic perspectives. Recognizing that risk is a central feature of our daily lives, found in relationships, organizations, governments, the environment, and a wide variety of interactions, contributors to this volume explore such questions as "What is

likely to happen, to whom, and with what consequences?" "To what extent can science and vigilance prevent or mitigate negative outcomes?" and "What obligation do some segments of local, national, and global populations have to help other segments manage risks?", shedding light on the issues in the quest for definitive answers. The Handbook offers a broad approach to the study of risk and crisis as joint concerns. Chapters explore the reach of crisis and risk communication, define and examine key constructs, and parse the contexts of these vital areas. As a whole, the volume presents a comprehensive array of studies that highlight the standard principles and theories on both topics, serving as the largest effort to date focused on engaging risk communication discussions in a comprehensive manner. Now available in paperback, the Handbook of Risk and Crisis Communication can be readily used in graduate coursework and individual research programs. With perspectives from psychology, sociology,

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anthropology, political science, economics, and communication, the Handbook provides vital insights for all disciplines studying risk, and is required reading for scholars and researchers investigating risk and crisis in various contexts.

### **English A Language and Literature**

Government Printing Office

Psychology is of interest to academics from many fields, as well as to the thousands of academic and clinical psychologists and general public who can't help but be interested in learning more about why humans think and behave as they do. This award-winning twelve-volume reference covers every aspect of the ever-fascinating discipline of psychology and represents the most current knowledge in the field. This ten-year revision now covers discoveries based in neuroscience, clinical psychology's new interest in evidence-based practice and mindfulness, and new findings in social, developmental, and forensic psychology.

*National Drug Clerk* Springer Nature

For corporate managers, maximization of

the profits and the market value of the firm is a prime objective. The logical working out of this principle in multinational enterprises has led to an intense focus on transfer pricing between related companies, principally on account of the very attractive tax advantages made possible. Inevitably, numerous countries have established transfer pricing legislation designed to combat the distortions and manipulations that are inherent in such transactions. This important book, one of the first in-depth analysis of the current worldwide working of transfer pricing in intra-group financing and its resonance in law, presents the relevant issues related to loans, financial guarantees, and cash pooling; analyses an innovative possible approach to these issues; and describes new methodologies that can be implemented in practice in order to make intra-group financing more compliant with efficient corporate financing decisions and the generally accepted OECD arm's length principle. Comparing the tax measures implemented in the corporate tax law systems of forty countries, this study investigates such aspects of intra-group financing as the following: – corporate finance theories, studies, and

surveys regarding financing decisions; – application of the arm's length principle to limit the deductibility of interest expenses; – impact of the OECD's Base Erosion and Profit Shifting (BEPS) project; – transfer pricing issues related to intra-group financing; – credit risk in corporate finance; – rationales utilized by credit rating agencies; and – the assessment of arm's length nature of intra-group financing. The author describes ways in which the application of the arm's length principle can be strengthened and how the related risk of distortion and manipulation can be minimized. The solutions and methodologies proposed are applicable to any business sector. Given that determination of the arm's length nature of transactions between related companies is one of the most difficult tasks currently faced by taxpayers and tax administrations around the world, this thorough assessment and analysis will prove extraordinarily useful for in-house and advisory practitioners, corporate officers, academics, international organizations, and government officials charged with finding effective responses to the serious issues raised. In addition to its well-researched analysis, the book's

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comparative overview of how loans, financial guarantees, and cash pooling are currently addressed by OECD Member States and by their national courts is of great practical value in business decision making.

*Africa* Lippincott Williams & Wilkins  
Combines theory with real-world case studies to give a comprehensive overview of modern optical wireless technology.

Urbanization and Development - Emerging

Futures Logos Verlag Berlin GmbH

This book seeks to problematize knowledge and practices regarding 'male rape' and its relationship to feminism, examining this issue from a Foucauldian perspective. Feminist constructions of 'male rape' can plausibly be claimed to operate as a 'regime of truth', but one must question whether this is running counter to patriarchy.

*Adolescents in Contemporary*

*Indonesia* IGI Global

Now in its Sixth Edition, this comprehensive text provides pertinent information on medical diagnosis, therapy, lab tests, and health maintenance essential to decision

making in primary care medicine. Every chapter has been revised to include more images, tables, and bulleted lists. Practical recommendations that incorporate the best available evidence, expert consensus guidelines, and clinical judgement are listed in bulleted items at the end of every chapter. The dermatology section has been extensively revised for this edition by a new section editor. A companion Website offers the fully searchable text and an image bank.

*Male Rape is a Feminist Issue* Financial Market Regulations and Legal Challenges in South Asia

This book contains a selection of the best papers from WEBIST 2009 (the 5th International Conference on Web Information Systems and Technologies), held in Lisbon, Portugal, in 2009, organized by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC), in collaboration with ACM SIGMIS and co-sponsored by the Workflow Management Coalition (WFMC). The purpose of the WEBIST series of conferences is to bring together researchers, engineers and practitioners

interested in the technological advances and business applications of Web-based information systems. The conference has four main tracks, covering different aspects of Web information systems, including Internet Technology, Web Interfaces and Applications, Society, e-Communities, e-Business and e-Government. WEBIST 2009 received 203 paper submissions from 47 countries on all continents. A double-blind review process was enforced, with the help of more than 150 experts from the International Program Committee; each of them specialized in one of the main conference topic areas. After reviewing, 28 papers were selected to be published and presented as full papers and 44 additional papers, describing work-in-progress, published and presented as short papers. Furthermore, 35 papers were presented as posters. The full-paper acceptance ratio was 13%, and the total oral paper acceptance ratio was 36%. Therefore, we hope that you find the papers included in this book interesting, and we trust they may represent a helpful reference for all those who need to address any of the research areas mentioned above. January 2010 José Cordeiro Joaquim Filipe  
Primary Care Medicine Springer

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## Science & Business Media

Financial Market Regulations and Legal Challenges in South Asia  
*GI Global Physical-Layer Security and Quantum Key Distribution*  
Frontiers E-books

The analysis of urban development of the past twenty years presented in this maiden edition of the *World Cities Report* shows, with compelling evidence, that there are new forms of collaboration and cooperation, planning, governance, finance and learning that can sustain positive change. The Report unequivocally demonstrates that the current urbanization model is unsustainable in many respects. It conveys a clear message that the pattern of urbanization needs to change in order to better respond to the challenges of our time, to address issues such as inequality, climate change, informality, insecurity, and the unsustainable forms of urban expansion.

*Handbook of Research on Digital Media and Advertising: User Generated Content Consumption*  
Bloomsbury Publishing

The most comprehensive of its kind, this classic resource in the field of nursing theory provides an in-depth look at 49 theorists of historical, international, and significant importance. Each chapter features a clear,

consistent presentation of a key nursing philosophy or theory. Case studies and critical thinking activities help bridge the gap between theory and application. A case study at the end of each theorist chapter puts the theory into a larger perspective, helping you understand how the information can be applied to practice. A Major Concepts & Definitions box in each theorist chapter outlines and summarizes the theory's most significant ideas and clarifies content-specific vocabulary. Each theorist chapter concludes with an extensive bibliography outlining numerous primary and secondary sources of information ideal for research projects. Critical Thinking Activities at the end of each theorist chapter challenge you to process the theory presented and apply it to personal and hypothetical practice situations. Introductory chapters provide you with a strong foundation in the history and philosophy of science, logical reasoning, and the theory development process. Diagrams for theories help you visualize and better understand inherently abstract concepts. Each theorist chapter is written by a scholar specializing in that particular theorist's work — often an individual who has worked closely with the theorist. Most chapters have been reviewed and edited by the theorist for currency and accuracy, further validating the accounts set forth in the text. Theorist birth (and if applicable, death) dates help you place each individual into a time

context. A new chapter introduces the theorist Afaf Meleis and covers her Transition Theory that has helped shape the theoretical development of nursing. Points for further study at the end of each chapter direct you to assets available for additional information. Need to know information is highlighted in at-a-glance summary boxes throughout to help you quickly review key concepts. Personal quotes from the theorists help you gain insight and make each complex theory more memorable. Updated references include only published works to ensure accuracy and credibility.

[The physiological consequences of breath-hold diving in marine mammals: the Scholander legacy](#)  
Springer

Extensively updated this second edition again brings together a multinational group of distinguished contributors to address every aspect of psychiatric care in the medically ill. This book captures the diversity of the field, whose practitioners -- scholars, physicians, and clinicians of varied backgrounds -- represent a multiplicity of perspectives.

## **User Generated Content Consumption**

Springer  
Can the psychodynamics of the mind be correlated with neurodynamic processes in the brain? The book revisits this important question - one that scientists and psychoanalysts have

been asking for more than a century. Freud envisioned that the separation between the two approaches was just a temporary limitation that future scientific progress would overcome. Yet, only recently have scientific developments shown that he was right. Technological and methodological innovations in neuroscience allow unprecedented insight into the neurobiological basis of topics such as empathy, embodiment and emotional conflict. As these domains have traditionally been the preserve of psychoanalysis and other fields within the humanities, rapprochement between disciplines seems more important than ever. Recent advances in neurodynamics and computational neuroscience also reveal richer and more dynamic brain-mind relations than those previously sketched by cognitive sciences. Are we therefore ready to correlate some neuroscientific concepts with psychoanalytic ones? Can the two disciplines share a common conceptual framework despite their different epistemological perspectives? The book brings together

internationally renowned contributors from the fields of Psychoanalysis, Neuroscience and Neuro-psychoanalysis to address these questions. The volume is organised in five clear sections, Motivation; Emotion; Conscious and Unconscious Processes; Cognitive Control; and Development of the Self. With a range of chapters written by leading figures in their fields, it gives the reader a strong flavour of how much has already been achieved between the disciplines and how much more lies ahead. This important new book reveals the intrinsic challenges and tensions of this interdisciplinary endeavour and emphasises the need for a shared language and new emerging fields such as Psychodynamic Neuroscience.

**Financial Market Regulations and Legal Challenges in South Asia** Oxford University Press

"This book bridges the gap between professional and academic perceptions of advertising in new media environments, defining the evolution of consumerism within the context of media change and establishing the practical issues related to consumer

power shifts from supplier to user"--Provided by publisher.

**Oil, Paint and Drug Reporter**  
Routledge

South Asia has experienced a long period of robust economic growth. While many regulatory policies have helped usher in this prosperous growth, some markets have plateaued due to hardships such as the decline in foreign remittance and international credit lines, and a contraction of exports. To continue to grow, the nations in this region must begin to integrate into the globalized world economy. **Financial Market Regulations and Legal Challenges in South Asia** addresses the difficulties and challenges of the regulatory environment in South Asia. This research-based publication outlines the apparent issues and resolutions as these developing nations transition into global economic players. This book is an excellent resource for policy makers, researchers and students in the financial field, government officials, bankers, and financial market regulators.

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Michigan's Oil & Gas News Routledge  
The politics of the internet has entered the social science mainstream. From debates about its impact on parties and election campaigns following momentous presidential contests in the United States, to concerns over international security, privacy and surveillance in the post-9/11, post-7/7 environment; from the rise of blogging as a threat to the traditional model of journalism, to controversies at the international level over how and if the internet should be governed by an entity such as the United Nations; from the new repertoires of collective action open to citizens, to the massive programs of public management reform taking place in the name of e-government, internet politics and policy are continually in the headlines. The Routledge Handbook of Internet Politics is a collection of over thirty chapters dealing with the most significant scholarly debates in this rapidly growing field of study. Organized in four broad sections: Institutions, Behavior, Identities, and

Law and Policy, the Handbook summarizes and criticizes contemporary debates while pointing out new departures. A comprehensive set of resources, it provides linkages to established theories of media and politics, political communication, governance, deliberative democracy and social movements, all within an interdisciplinary context. The contributors form a strong international cast of established and junior scholars. This is the first publication of its kind in this field; a helpful companion to students and scholars of politics, international relations, communication studies and sociology.

**Differential and Difference Equations with Applications** Logos Verlag Berlin GmbH  
Aimed at the community of mathematicians working on ordinary and partial differential equations, difference equations, and functional equations, this book contains selected papers based on the presentations at the International Conference on Differential & Difference Equations and Applications (ICDDEA) 2015, dedicated to the memory of

Professor Georg Sell. Contributions include new trends in the field of differential and difference equations, applications of differential and difference equations, as well as high-level survey results. The main aim of this recurring conference series is to promote, encourage, cooperate, and bring together researchers in the fields of differential & difference equations. All areas of differential and difference equations are represented, with special emphasis on applications.