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Principles Underlying the Design of Electrical Machinery Ideas and Beliefs in Architecture and Industrial Design Critical Materials: Underlying Causes And Sustainable Mitigation Strategies Technologies underlying weapons of mass destruction Introduction to Graphic Design Methodologies and Processes Principles Underlying the Design of Electrical Machinery Reading Faces and Bodies: Behavioural and Neural Processes Underlying the Understanding of, and Interaction with, Others Principles Underlying the Design of Electrical Machinery (Classic Reprint) Mechanisms, Symbols, and Models Underlying Cognition Mathematics Underlying the Design of Pneumatic Tires The Principles Underlying Radio Communication Growth Patterns Underlying Plant Development The Principles Underlying Radio Communication Innovative 3D models for Understanding Mechanisms underlying Lung Diseases: Powerful Tools for Translational Research Dynamical System Models in the Life Sciences and Their Underlying Scientific Issues Genetics Architecture and Underlying Molecular Mechanisms in Host-Pathogen Interactions Insights Into Mechanisms Underlying Brain Impairment in Aging Two for the Price of One – Effects and Underlying Mechanisms of Combined Motor-Cognitive Interventions on the Body and the Brain Understanding the Human Factor of the Energy Transition: Mechanisms Underlying Energy-Relevant Decisions and Behaviors Non-fibrillar Amyloidogenic Protein Assemblies - Common Cytotoxins Underlying Degenerative Diseases Neurobiological Systems Underlying Reward and Emotions in Social Settings Principles Underlying Post-Stroke Recovery of Upper Extremity Sensorimotor Function – A Neuroimaging Perspective The Design and Use of Instruments and Accrate Mechanism, Underlying Principles Linking Treatment Target Identification to Biological Mechanisms Underlying Mood Disorders Phantom Sensation and Pain: Underlying Mechanisms and Innovative Treatments Mechanisms Underlying the Interplay Between Cognition and Motor Control: From Bench to Bedside Understanding the nature of the body model underlying position sense Research on Risk Evaluation Methods of Groundwater Bursting from Aquifers Underlying Coal Seams and Applications to Coalfields of North China What's Shared in Sharing Tasks and Actions? Processes and Representations Underlying Joint Performance Neural Mechanisms Underlying Movement-Based Embodied Contemplative Practices The Design and Use of Instruments Andaccurate Mechanism: Underlying Principles Designing Business and Management Re-Designing Teacher Education for Culturally and Linguistically Diverse Students The Architectural Review Macromolecular Structure Underlying Recognition in Innate Immunity Novel Treatments and the Underlying Mechanisms for Diabetic Foot and Related Diseases Creativity in the Classroom Spatial Distribution of Selenium and Other Inorganic Constituents in Ground Water Underlying a Drained Agricultural Field, Western San Joaquin Valley, California Animal Models of Anxiety and Depression: Exploring the Underlying Mechanisms of Sex Differences Handbook of Digital CMOS Technology, Circuits, and Systems

Principles Underlying the Design of Electrical Machinery 2019 this book covers a new frontier of research in critical materials that provides insight in terms of the possible sustainable mitigation strategies the complexity broadness and multi disciplinarity of the subject by exploring in both systems view and in depth materials view in light of the circular economy this book tackles the problem of sustainable usage of materials that is closely intertwined with the energy issue and climate change topics covered include geopolitics of materials the energy materials nexus definitions of the criticality of materials circular product design the development of alternative materials substitution sustainable mining and recycling

Ideas and Beliefs in Architecture and Industrial Design 2006 a concise visually based introduction to graphic design methodologies graphic design has emerged as a discipline complete with a body of scholarly literature devoted to its underlying theory introduction to graphic design methodologies and processes contributes to this expanding discourse by illustrating the value of qualitative and quantitative methodologies in guiding conceptual development in ways beyond those based on taste style and personal preference introduction to graphic design methodologies and processes introduces a range of practical methodologies pertinent to the interpreting targeting and creating of forms and messages furthers the ability of designers by showing them how to design creatively collaboratively and strategically and as a result helps them move from form makers to cultural participants a transformative trend for design professionals includes case studies with questions and answers contributed by a diverse group including second story and sol sender as professional designers play more strategic roles the need for material on design methodologies is growing this concise visually based introduction to the topic is the designer s definitive resource for defining their purpose and producing work that is original appropriate responsible and inspiring

Critical Materials: Underlying Causes And Sustainable Mitigation Strategies 2019-02-27 the aim of this research topic was to offer an interdisciplinary forum for researchers interested in the interplay of face eye gaze and body perception in the understanding of others with an emphasis on behavioural and neural processing the papers included in this topic come from cognitive neuroscience and social psychology perspectives and shed new light on how facial and body cues interact with each other and with social ecological and contextual factors such as for example social identification and group membership to form a unified representation that can guide our perceptions and responses to other people altogether they provide an up to date picture of advances in this fascinating research field

Technologies underlying weapons of mass destruction 2011-01-25 excerpt from principles underlying the design of electrical machinery this book is developed from a course of lectures given at columbia university and from the author s own experience as a designing engineer it is to some extent an amplification of the series of articles on the design of electrical machinery written by the same author for pender s handbook for electrical engineers an important feature of the present work is the derivation of formulae from fundamental principles an explanation of each formula and the reasons for the various standards of practice all of which are explained in such a manner as to convey a mental picture of the fundamental physical phenomena leading to them the object is to give a practical method of design with explanations of the physical meaning of the arbitrary constants used by the professional designer it is hoped that the book will be found useful not only as a text for a course on design in technical schools but also as an aid to the young engineer by explaining the why of certain conventional practices a systematic method of procedure and a complete sample calculation are given for the design of each type of machine treated the tables also give complete specifications and the results of calculations on several actual modern machines of each type the calculations of the mechanical features have been purposely omitted as they are considered to be outside the scope of the book which is strictly electrical the methods and the data are the result of an experience of seven years service in the design department of one of the large manufacturing companies and sixteen years experience in teaching the subject about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Introduction to Graphic Design Methodologies and Processes 1926 the two volume set lncs 3561 and lncs 3562 constitute the refereed proceedings of the first international work conference on the interplay between natural and artificial computation iwinac 2005 held in las palmas canary islands spain in june 2005 the 118 revised papers presented are thematically divided into two volumes the first includes all the contributions mainly related with the methodological conceptual formal and experimental developments in the fields of neurophysiology and cognitive science the second volume collects the papers related with bioinspired programming strategies and all the contributions related with the computational solutions to engineering problems in different application domains

Principles Underlying the Design of Electrical Machinery 2017-04-27 batcheller collection

Reading Faces and Bodies: Behavioural and Neural Processes Underlying the Understanding of, and Interaction with, Others 2015-06-28 the mechanisms underlying acute and chronic lung diseases are complex reflecting the interplay between multiple cell types their microenvironment and exogenous challenges while traditional in vitro cell culture approaches have been instrumental in advancing our knowledge of cellular signalling and function they typically lack the cell cell and cell matrix interactions that define the niche in which lung cell and tissue functions emerge implementing in vivo and ex vivo three dimensional 3d models more realistically mimicking the in vivo cell extracellular matrix ecm crosstalk should facilitate a considerable leap towards better understanding lung diseases and thus in investigating new pharmacological tools we are experiencing a revolution in our understanding of the cell types that deposit and remodel ecm in the lung the dynamic spatial composition of the ecm and cell cell interactions during disease and the influence of ecm and cell derived cues on lung cell biology in concert the ex vivo and in vitro models that are being used to examine the role of the 3d microenvironment of the cell in the lung are rapidly developing the european respiratory society has partnered with frontiers in pharmacology to launch this research topic in conjunction with the ers research seminar innovative 3d models for understanding mechanisms underlying lung diseases powerful tools for translational research

Principles Underlying the Design of Electrical Machinery (Classic Reprint) 2005-06-09 broadly speaking there are two general approaches to teaching mathematical modeling 1 the case study approach and 2 the method based approach that teaches mathematical techniques with applications to relevant mathematical models this text emphasizes instead the scientific issues for modeling different phenomena for the natural or harvested growth of a fish population we may be interested in the evolution of the population whether it reaches a steady state equilibrium or cycle stable or unstable with respect to a small perturbation from equilibrium or whether a small change in the environment would cause a catastrophic change etc each scientific issue requires an appropriate model and a different set of mathematical tools to extract information from the model models examined are chosen to help explain or justify empirical observations such as cocktail drug treatments are more effective and regenerations after injuries or illness are fast tracked compared to original developments volume i of this three volume set limits its scope to phenomena and scientific issues that are modeled by ordinary differential equations ode scientific issues

such as signal and wave propagation diffusion and shock formation involving spatial dynamics to be modeled by partial differential equations pde will be treated in vol ii scientific issues involving randomness and uncertainty are examined in vol iii request inspection copy contents mathematical models and the modeling cyclegrowth of a population evolution and equilibriumstability and bifurcationinteracting populations linear interactionsnonlinear autonomous interactionshiv dynamics and drug treatmentsindex theory bistability and feedbackoptimization the economics of growthoptimization over a planning periodmodifications of the basic problemboundary value problems are more complexconstraints and control do your best and the maximum principlechlamydia trachomatisgenetic instability and carcinogenesismathematical modeling revisitedappendices first order odebasic numerical methodsassignments readership undergraduates in mathematical biology mathematical modeling of dynamical systems optimization and control viral dynamics infectious diseases oncology

Mechanisms, Symbols, and Models Underlying Cognition 1963 an increasing number of countries are shifting toward sustainable energy economies emphasizing the use of renewable energy sources increases in energy efficiency and the abatement of greenhouse gas emissions the success of such an energy transition will depend not only on the development of new energy technologies but also on major changes in the patterns of individual energy related decisions and behaviors resulting in substantial reductions in energy demand consequently the behavioral sciences can make important contributions to the energy transition by increasing our understanding of the multiple factors and mechanisms that underlie individual as well as group based decisions and behaviors in the energy domain and by creating a basis for systematic interventions that reduce energy usage many different types of relevant behaviors and decisions need to be considered in this context including decisions to invest in energy efficient household equipment adjustments of energy critical habits related to heating eating or mode of transportation and participation in the political discourse related to questions of energy an integration of the expertise of the different disciplines of the behavioral sciences is thus needed to comprehensively investigate the impact of the different drivers and barriers that may determine energy related decisions and behaviors including economic factors such as price level social factors such as norms communication patterns and social learning processes and individual factors such as values attitudes beliefs heuristics affective biases and emotions the potential impact of these factors on the success of the energy transition is considerable for example a recent projection of the energy demand in switzerland until 2050 has estimated the reduction potential related to psychological and sociological factors between 0 and 30 depending on which behavioral changes will be implemented in society increased research efforts from the behavioral sciences are required to ensure that the full reduction potential can be achieved this research topic brings together contributions from different disciplines such as psychology affective science behavioral economics economics sociology consumer behavior business science sociology and political science that improve our understanding of the many factors underlying decision making and behavior in the energy domain and contribute to the development of targeted interventions that aim at reducing energy demand based on these factors

Mathematics Underlying the Design of Pneumatic Tires 1922 amyloid forming proteins are implicated in over 30 human diseases the proteins involved in each disease have unrelated sequences and dissimilar native structures but they all undergo conformational alterations to form fibrillar polymers the fibrillar assemblies accumulate progressively into disease specific lesions in vivo substantial evidence suggests these lesions are the end state of aberrant protein folding whereas the actual disease causing culprits likely are soluble non fibrillar assemblies preceding the aggregates the non fibrillar protein assemblies range from small low order oligomers to spherical annular and protofibrillar species oligomeric species are believed to mediate various pathogenic mechanisms that lead to cellular dysfunction cytotoxicity and cell loss eventuating in disease specific degeneration and systemic morbidity the particular pathologies thus are determined by the afflicted cell types organs systems and the proteins involved evidence suggests that the oligomeric species may share structural features and possibly common mechanisms of action in many cases the structure function interrelationships amongst the various protein assemblies described in vitro are still elusive deciphering these intricate structure function correlations will help understanding a complex array of pathogenic mechanisms some of which may be common across different diseases albeit affecting different cell types and systems

The Principles Underlying Radio Communication 2022-09-22 neuroimaging post stroke has the potential to uncover underlying principles of disordered function and recovery characterizing defined patient groups including their long term course as well as individual variations mri measuring task related activation as well as resting state functional mri can be performed by mri to detect blood flow and associated changes in brain function for structural mri robust and accurate computational anatomical methods like voxel based morphometry and surface based techniques are available the investigation of the connectivity between brain regions and disruption after stroke is facilitated by diffusion tensor imaging dti intra and interhemispheric coherence may be studied by the use of the techniques of electroencephalography and transcranial magnetic stimulation consecutive phases of stroke recovery acute subacute early chronic and late chronic stages are each distinguished by intrinsic processes the site and size of lesions entail partially different functional implications new strategies to establish a specific function of a lesion site large scale lesions often imply poor cerebral blood flow which impedes recovery significantly and possibly interferes with bold response of functional mri thus depending on the site and size of the infarct the patterns of recovery will vary these include in the perilesional area intrinsic compensatory mechanisms using alternative cortical and subcortical pathways or behavioral compensatory strategies eg by using the non affected limb in this context behavioral and neuroimaging measures should be developed and applied to delineate aspects of learning during recovery of special interest in the recovery of hand paresis is the interplay between sensory and motor areas in the posterior parietal cortex the dominant disability should be from the level of elementary to hierarchically higher processes such as neglect apraxia and motor planning in summary this research covers new trends in state of the art neuroimaging of stroke during recovery from upper limb paresis integration of behavioral and neuroimaging findings in probabilistic brain atlases

Growth Patterns Underlying Plant Development 1919 major limb amputation affects a large number of people worldwide with estimates in the united states as high as 2 million one of the most common conditions following limb amputation is phantom limb sensation the majority of patients who have undergone traumatic limb loss also experience phantom limb pain plp there is no consensus on potential differences in the frequency or severity of phantom pain between men and women this project is seeking out studies that look at the experience of plp what people feel frequency and duration of plp episodes if there is a difference in experience between men and women as well as if there is a relationship between plp experiences and cause of amputation although plp has been recognized since the mid 16th century the etiology is still unknown there are several proposed mechanisms including learned paralysis cortical reorganization and proprioceptive memory it has been proposed that the mechanism of learned paralysis whereby plp arises because the brain does not receive visual feedback that a motor movement has occurred thus creating the sensation that the limb is paralyzed cortical reorganization theory states that areas near those corresponding to the amputated limb slowly expand into those corresponding to the amputated limb this theory has been supported by the correlation of more severe plp with increased neural plasticity proprioceptive memory refers to a theory that the brain remembers sensations associated with specific perceived positions of the phantom limb while many treatments for plp have yielded little success mirror therapy mt appears to be a promising method for relieving plp several small scale studies have been conducted to evaluate the efficacy of my with most patients seeing some reduction in plp one group performed the first randomized sham controlled study demonstrating that mt was more

effective in reducing plp in lower limb amputees compared to covered mirror therapy or mental visualization of movements the efficacy of nearly complete pain relief continued for at least 2 years after therapy the physiological reason for mirror therapy s effectiveness remains unknown but the effectiveness would correspond with the theory of cortical reorganization in that mt would reset the original reorganization present in the brain before amputation and would also support the theory of proprioceptive memories in that it could remove recall of those memories this project will discuss further investigation into the factors relating to success in mt as well as the efficacy of mt in relation to proposed mechanisms that cause plp discussion of other forms of novel treatment will also be included this research topic attempts to further explain the etiology of phantom limb pain better understand the experience of phantom limb pain and explore treatment options for phantom limb pain this project will include a review of the current understanding of phantom limb pain its causes and treatment

The Principles Underlying Radio Communication 2024-02-05 accurate information about body structure and posture is fundamental for effective control of our actions it is often assumed that healthy adults have accurate representations of their body although people s abilities to visually recognize their own body size and shape are relatively good the implicit spatial representation of their body is extremely distorted when measured in proprioceptive localization tasks the aim of this thesis is to understand the nature of spatial distortions of the body model measured in those localization tasks we especially investigate the perceptual cognitive components contributing to distortions of implicit representation of the human hand and compare those distortions with the one found on objects in similar tasks

Innovative 3D models for Understanding Mechanisms underlying Lung Diseases: Powerful Tools for Translational Research 2017-08-16 this book provides an information fusion model with information fusion theory geographic information system technology and modern mathematical methods to evaluate the risks of groundwater inrushes from aquifers underlying coal seams in this new model the water inrush vulnerable index was calculated with variable weights theory it overcomes the defect of the traditional vulnerability index method that assumes constant weights for the factors controlling the water inrush mine water inrush events often occur during coal mine construction and production they account for a large proportion of the nation s coal mine disasters and accidents in china between 2005 and 2014 513 water inrush incidents have occurred with a total loss of 2 753 lives as mining depths and mining intensity continue to increase the hydrogeological conditions encountered are becoming more complex the innovative model presented here was applied to two coal mines in china with proved better results than the traditional vulnerability index method

Dynamical System Models in the Life Sciences and Their Underlying Scientific Issues 2021-10-04 this ebook is a collection of articles from a frontiers research topic frontiers research topics are very popular trademarks of the frontiers journals series they are collections of at least ten articles all centered on a particular subject with their unique mix of varied contributions from original research to review articles frontiers research topics unify the most influential researchers the latest key findings and historical advances in a hot research area find out more on how to host your own frontiers research topic or contribute to one as an author by contacting the frontiers editorial office frontiersin org about contact

Genetics Architecture and Underlying Molecular Mechanisms in Host-Pathogen Interactions 2021-11-29 relative to the extensive neuroscientific work on seated meditation practices far less studies have investigated the neural mechanisms underlying movement based contemplative practices such as yoga or tai chi movement based practices have however been found to be effective for relieving the symptoms of several clinical conditions and to elicit measurable changes in physiological neural and behavioral parameters in healthy individuals an important challenge for neuroscience is therefore to advance our understanding of the neurophysiological and neurocognitive mechanisms underlying these observed effects and this research topic aims to make a contribution in this regard it showcases the current state of the art of investigations on movement based practices including yoga tai chi the feldenkrais method as well as dance featured contributions include empirical research proposals of theoretical frameworks as well as novel perspectives on a variety of issues relevant to the field this research topic is the first of its kind to specifically attempt a neurophysiological and neurocognitive characterization that spans multiple mindful movement approaches and we trust it will be of interest to basic scientists clinical researchers and contemplative practitioners alike

Insights Into Mechanisms Underlying Brain Impairment in Aging 2023-02-02 scholars and practitioners from management and design address the challenges and issues of designing business from a design perspective designing business and management combines practical models and grounded theories to improve organizations by design for designing managers and managing designers the book offers visual and conceptual models as well as theoretical concepts that connect the practice of designing with the activities of changing organizing and managing the book zooms in on designing beyond products and services it focuses on designing businesses with a particular onus on social business and social entrepreneurship designing business and management contributes to and enhances the discourse between leading design and management scholars offers a first outline of issues concepts practices methods and principles that currently represent the body of knowledge pertaining to designing business with a special focus on perceiving business as a social activity and explores the practices of designing and managing their commonalities distinctions and boundaries

Two for the Price of One – Effects and Underlying Mechanisms of Combined Motor-Cognitive Interventions on the Body and the Brain 2016-06-27 through a critical ecological lens this book examines how to prepare preservice teachers to be resourceful and responsive practitioners in addressing the intellectual needs of children often labeled as culturally and linguistically diverse it explores a comprehensive re design of a teacher education program grounded in research on the complex factors that affect the teaching and learning of linguistically and culturally diverse children re designing teacher education for culturally and linguistically diverse students challenges hegemonic cultural and linguistic norms quantitative and static views of resources the impact of u s education policy and the limited attention to the agency identities and strategic actions of diverse students and their families

Understanding the Human Factor of the Energy Transition: Mechanisms Underlying Energy-Relevant Decisions and Behaviors 2012-01-13 diabetic foot is a serious complication of diabetes worldwide the etiology of diabetic foot is quite complex due to its multifactorial nature diabetic neuropathy peripheral artery disease foot deformity high blood glucose and secondary infection all can contribute to diabetic foot ulceration and gangrene sometimes resulting in minor or major amputations several risk factors including old age long term diabetes smoking foot deformity and ischemia have been identified in diabetic foot many diagnostic methods are used for early stage diabetic neuropathy and peripheral arterial disease such as pulse wave ankle brachial artery ratio sudoscan gait analysis etc due to the high glucose environment metabolic disorder ischemia and peripheral neuropathy diabetic foot ulcer is much more difficult to heal than common traumatic wounds therefore in addition to existing treatments new methods or techniques are still needed to improve wound healing we also expect to find novel pathways to elucidate the complicated mechanisms involved in diabetic foot and diabetic wound healing

Non-fibrillar Amyloidogenic Protein Assemblies - Common Cytotoxins Underlying Degenerative Diseases 2021-03-12 now in its seventh edition creativity in the classroom helps teachers link creativity research and theory to the everyday activities of classroom teaching ideal reading for any course dealing wholly or partially with creativity and teaching this foundational textbook covers definitions research and

theory in the first half and reflects on classroom practices in the second thoroughly revised and updated the seventh edition features new research on neuroscience and creativity in specific disciplines new sections on social emotional learning teaching engineering and leadership and an entire new chapter on building creativity at the school or district level

Neurobiological Systems Underlying Reward and Emotions in Social Settings 2016-01-29 this book provides a comprehensive reference for everything that has to do with digital circuits the author focuses equally on all levels of abstraction he tells a bottom up story from the physics level to the finished product level the aim is to provide a full account of the experience of designing fabricating understanding and testing a microchip the content is structured to be very accessible and self contained allowing readers with diverse backgrounds to read as much or as little of the book as needed beyond a basic foundation of mathematics and physics the book makes no assumptions about prior knowledge this allows someone new to the field to read the book from the beginning it also means that someone using the book as a reference will be able to answer their questions without referring to any external sources

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