Transport Phenomena In Biological Systems

Interfacial Phenomena in Biological SystemsThe Common Extremalities in Biology and PhysicsMathematical Theories of Biological PhenomenaHysteresis Phenomena in BiologyTransport Phenomena in Biological SystemsPatterns of Change in Earth EvolutionPermuted Medical Subject HeadingsChambers's EncyclopaediaWeightlessness-Physical Phenomena and Biological EffectsThe Neuropsychology of Mental IllnessChamber's EncyclopædiaGeneral BiologyAnimal Cognition and BehaviorPhilosophical remains, with a memoir. ed. by A. Bain and T. WhittakerCrime in Biological, Social, and Moral ContextsSystems Theory and BiologyReductionReport of the ... and ... Meetings of the British Association for the Advancement of ScienceReport ... Of The British Association For The Advancement Of ScienceReport of the ... Meeting of the British Association for the Advancement of Science Max Bender Adam Moroz Nicolas Rashevsky Hamid Reza Noori George A. Truskey H.D. Holland National Library of Medicine (U.S.) Elliot T. Benedikt Stephen J. Wood William Thompson Sedgwick R.L. Mellgren George Croom Robertson Lee Ellis Mihajlo D. Mesarovic Alexander Hieke British Association for the Advancement of Science. Meeting British Association for the Advancement of Science. Meeting

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integrating information from physics chemistry and the biological sciences presents a comprehensive survey of surface phenomena in living bodies for readers at an advanced undergraduate or higher level in medicine dentistry pathology and orthopedy considers such surfaces as skin vascular are

the common extremalities in biology and physics is the first unified systemic description of dissipative phenomena taking place in biology and non dissipative conservative phenomena which is more relevant to physics fully updated and revised this new edition extends our understanding of nonlinear phenomena in biology and physics from the extreme optimal perspective the first book to provide understanding of physical phenomena from a biological perspective and biological phenomena from a physical perspective discusses emerging fields and analysis provides examples

the occurrence of hysteresis phenomena has been traditionally associated with mechanical and magnetic properties of materials however recent studies on the dynamics of biological processes suggest switch like behavior that could be described by mathematical models of hysteresis this book presents the milestones and perspectives of biological hysteresis and provides a comprehensive and application oriented introduction to this subject the target audience primarily comprises researchers but the book may also be beneficial for graduate

students

3 of the experience of the last few generations the group of happily unexperienced events includes large bolide impacts with the earth the evidence for the occurrence of such impacts at intervals of some tens of millions of years is quite convincing and lyell stands admonished by hamlet there are more things in heaven and earth horatio than are dreamt of in your philosophy the role of bolide impacts on the history of life during other portions of the phanerozoic eon is less clear see raup and fischer both this volume and catastrophic changes unrelated to extraterrestrial processes may have been important see holser this volume changes in the later precambrian biota are still difficult to interpret in part because the preservation of soft bodied animals from this period of earth history is so unusual see seilacher this volume during the past billion years or so bolide impacts have exerted a significant effect on the earth s surface and its inhabitants but not on its interior the 3800 ma rocks at isua in west greenland are the oldest terrestrial rocks that are currently available for inspection see dymek this volume they contain abundant evidence for the operation of chemical and physical processes that are similar to those of the present day this situation could not have prevailed during the entire 700 ma preceding the formation of the isua rocks

describes neuropsychological approaches to the investigation description measurement and management of a wide range of mental illnesses

contributed chapters by psychologists and behavioral biologists provide a broad coverage of animal behavior and governing brain processes topics covered include foraging behavior and strategies economics and psychology memory of events and space time perception expectancies food preferences and diet selection behavior variability and the concept of mind the volume is designed to satisfy an intderdisciplinary audience embracing the behavioristic tradition biological and physiological approaches and evolutionary theory as philosophical underpinnings to the chapters also achieved in this work is a good balance between empirical results and theory

illustrating the diversity and richness of biosocial theory this contributor volume introduces numerous new views on the biological and social causes of criminality and pro antisociality from the biosocial perspective criminal behavior becomes part of a behavioral continuum which may theoretically include basic moral reasoning and altruism contributors from diverse fields outline basic assumptions of the biosocial perspective they examine various evolutionary genetic and neurochemical aspects of criminality and push the limits of current knowledge to the outer edges of biosocial theorizing this volume is intended to inform social scientists particularly criminologists of recent developments in biosocial approaches to the study of pro antisociality and criminality it is the intent of the editors to give readers of this book a clear picture of the biosocial approach to the study of pro antisociality emphasizing the interdisciplinary nature of this field contributors were selected from diverse academic backgrounds the volume contains seventeen chapters and is organized in four sections the first section conceptualizes the field identifies behavioral and demographic variables correlated with criminality and discusses the degree to which experts currently subscribe to the biosocial perspective section two examines the contribution of evolutionary and genetic factors to variations in criminality section three focuses on how brain functioning relates to pro antisociality the final section extends the theoretical limits of existing knowledge illustrating the potential of this approach to social science

by j ohn a hrones provost case institute 0 technology systems have been the subject of man s study for many hundreds of years thus the solar system has been the concern of the astronomer the study of the allocation of material and human resources within the boundaries of an industrial firm or a government has been the concern of the economist the subject of such studies have been widely known as economic systems medieal men have worked with the human body thus man has attempted to deal with a complicated array of interconnected

elements since the very earliest of recorded time in his attcmpt to improve his understanding of physieal systems the need to concentrate on a specific kind of system e g the solar system the human body became more imperative however in recent years there has begun to grow and develop an increasing number of people who are working on thc development of general systems theory and analysis such a development is based upon the belief that certain view points certain kinds of mathematics and technologieal procedures can be applied to a wide variety of important systems with considerable profit the pres sures for the development of such a body of knowledge grew with the de velopment of a technologieal socicty

the investigation of the mind has been one of the major concerns of our philosophical tradition and it still is a dominant subject in modern philosophy as well as in science many philosophers in the scientific tradition want to solve the puzzles of the mind but many philosophers in the very same tradition do regard these puzzles as puzzles of the brain so whilst the former think of the mental as something of its own kind the latter deny that philosophy of mind has to do with anything else but the brain and then there are those who think that reduction is the way to go maybe the mental is brain dependent and hence reducible to the physical in some way this volume collects contributions comprising all those points of view including articles by william bechtel jerry fodor jaegwon kim joëlle proust and patrick suppes

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