



# Living Systems

**R. Buvet, M.J. Allen, J.-P. Massué**



## **Living Systems:**

Living Systems James Grier Miller, 1978      Living Systems Liat Margolis, Alexander Robinson, 2008-02-01 The use of innovative new materials is an important trend in landscape architecture today These materials include biodegradable geotextiles super absorbent polymers and plants that react to changing soil conditions This book presents the available materials and technologies in the context of practical applications      Living Systems Christa Sommerer, Laurent Mignonneau, 2011 The works of Christa Sommerer Germany 1964 and Laurent Mignonneau France 1965 explore the relation between art science and technology Their projects have been branded as pioneering not only for their natural and intuitive development of diverse interactive interfaces but also for the application of basic scientific principles from the fields of biology artificial life complexity science and nanotechnology This book reviews their oeuvres and is a testament to the underlying scientific concepts Sommerer and Mignonneau have shown in numerous exhibitions and are featured in digital art collections and museums around the world including the ZKM in Karlsruhe Germany and the NTT ICC InterCommunication Center in Tokyo Japan In 1994 they received one of the most prestigious media art awards the Golden Nica from Ars Electronica They currently lecture at the International Academy of Media Arts and Sciences in Japan and at the University of Arts and Industrial Design in Linz Austria The book includes texts by two professors of art and science Suzanne Witzgall and Ricard Solé      **Information and Living Systems** George Terzis, Robert Arp, 2011 The informational nature of biological organization at levels from the genetic and epigenetic to the cognitive and linguistic Information shapes biological organization in fundamental ways and at every organizational level Because organisms use information including DNA codes gene expression and chemical signaling to construct maintain repair and replicate themselves it would seem only natural to use information related ideas in our attempts to understand the general nature of living systems the causality by which they operate the difference between living and inanimate matter and the emergence in some biological species of cognition emotion and language And yet philosophers and scientists have been slow to do so This volume fills that gap Information and Living Systems offers a collection of original chapters in which scientists and philosophers discuss the informational nature of biological organization at levels ranging from the genetic to the cognitive and linguistic The chapters examine not only familiar information related ideas intrinsic to the biological sciences but also broader information theoretic perspectives used to interpret their significance The contributors represent a range of disciplines including anthropology biology chemistry cognitive science information theory philosophy psychology and systems theory thus demonstrating the deeply interdisciplinary nature of the volume's bioinformational theme      *Robustness and Evolvability in Living Systems* Andreas Wagner, 2013-10-24 All living things are remarkably complex yet their DNA is unstable undergoing countless random mutations over generations Despite this instability most animals do not grow two heads or die plants continue to thrive and bacteria continue to divide Robustness and Evolvability in Living Systems tackles this perplexing paradox The book explores

why genetic changes do not cause organisms to fail catastrophically and how evolution shapes organisms robustness Andreas Wagner looks at this problem from the ground up starting with the alphabet of DNA the genetic code RNA and protein molecules moving on to genetic networks and embryonic development and working his way up to whole organisms He then develops an evolutionary explanation for robustness Wagner shows how evolution by natural selection preferentially finds and favors robust solutions to the problems organisms face in surviving and reproducing Such robustness he argues also enhances the potential for future evolutionary innovation Wagner also argues that robustness has less to do with organisms having plenty of spare parts the redundancy theory that has been popular and more to do with the reality that mutations can change organisms in ways that do not substantively affect their fitness Unparalleled in its field this book offers the most detailed analysis available of all facets of robustness within organisms It will appeal not only to biologists but also to engineers interested in the design of robust systems and to social scientists concerned with robustness in human communities and populations

**Humans as Self-Constructing Living Systems** Donald H. Ford, 2019-03-04 Originally published in 1987 the purpose of this title was to develop a conceptual framework for understanding individual humans as complex functional entities It was felt that a sound developmental theory of human personality and behaviour would help synthesize existing scientific and clinical information into a coherent representation of a person as a functional unit guide future research and facilitate the work of the health and human services professions The volume is aimed at a multidisciplinary multiprofessional audience

*Molecular and Biological Physics of Living Systems* R.K. Mishra, 2012-12-06 The living organisms and systems possess extraordinary properties of programmed development differentiation growth response movement duplication of key molecules and in many cases higher mental functions But the organisms are physical objects so they must follow laws of physics yet they do not seem to obey them Physicists cannot easily persuade themselves to accept this as finally true Non living objects are governed by these laws of physics and they can explain these properties However in the living systems too phenomena encountered like coupled non linear interactions manybody effects cooperativity coherence phase transitions reversible metastable states are being understood better with the aid of powerful theoretical and experimental techniques and hope is raised that these may let us understand the mysteriousness of life Contributors to this volume are a small fraction of rapidly growing scientific opinion that these aspects of living bodies are to be expected in a hitherto inadequately suspected state of matter which is in the main directed by these physical properties pushed almost to limit This state of matter the living matter deserves to be called The Living State Mishra proposes that given hydrogenic orbitals atoms showing easy hybridisability and multiple valences molecules with low lying electronic levels loose structure and a metabolic pump in thermodynamically open system various fundamental properties of living state can emerge automatically Structurally these are all known to be present

**From the Atom to Living Systems** Marina Paola Banchetti-Robino, Giovanni Villani, 2023 This book represents a philosophical and scientific journey that will proceed

according to three stages of increasing levels of complexity beginning with the atom then moving to macromolecules and finally moving to the threshold of life The first stage analyzes the transition from the qualitatively undifferentiated atom to differentiated atoms The second stage analyzes the passage from atoms to molecule and the third stage examines the passage from molecule to macromolecule

**A Quest Towards a Mathematical Theory of Living Systems** Nicola Bellomo, Abdelghani Bellouquid, Livio Gibelli, Nisrine Outada, 2017-07-13 This monograph aims to lay the groundwork for the design of a unified mathematical approach to the modeling and analysis of large complex systems composed of interacting living things Drawing on twenty years of research in various scientific fields it explores how mathematical kinetic theory and evolutionary game theory can be used to understand the complex interplay between mathematical sciences and the dynamics of living systems The authors hope this will contribute to the development of new tools and strategies if not a new mathematical theory The first chapter discusses the main features of living systems and outlines a strategy for their modeling The following chapters then explore some of the methods needed to potentially achieve this in practice Chapter Two provides a brief introduction to the mathematical kinetic theory of classical particles with special emphasis on the Boltzmann equation the Enskog equation mean field models and Monte Carlo methods are also briefly covered Chapter Three uses concepts from evolutionary game theory to derive mathematical structures that are able to capture the complexity features of interactions within living systems The book then shifts to exploring the relevant applications of these methods that can potentially be used to derive specific usable models The modeling of social systems in various contexts is the subject of Chapter Five and an overview of modeling crowd dynamics is given in Chapter Six demonstrating how this approach can be used to model the dynamics of multicellular systems The final chapter considers some additional applications before presenting an overview of open problems The authors then offer their own speculations on the conceptual paths that may lead to a mathematical theory of living systems hoping to motivate future research activity in the field A truly unique contribution to the existing literature

**A Quest Toward a Mathematical Theory of Living Systems** is an important book that will no doubt have a significant influence on the future directions of the field It will be of interest to mathematical biologists systems biologists biophysicists and other researchers working on understanding the complexities of living systems

*Living Systems as Energy Converters* R. Buvet, M.J. Allen, J.-P. Massué, 2013-09-24 *Living Systems as Energy Converters* documents the proceedings of the European Conference on Living Systems as Energy Converters held in Pont a Mousson France on October 18 22 1976 This book is organized into three main topics energy in biological molecules biological membranes as energy transducers and energy in cells organisms and populations In these topics this compilation specifically discusses the energetic evolution of complex networks of reactions protein structure and the molecular evolution of biological energy conversion and structure and function of ATP synthase The calcium transport in biological membranes conversion of solar energy into energy rich phosphate compounds and energy conservation in photosynthetic electron transport of chloroplasts are also deliberated This

text likewise covers the direct conversion of radiant into electrical energy using plant systems energy budgets in natural and agricultural ecosystems and recycling of excess carbon dioxide from fossil energy conversion by plants This publication is intended for biologists and physical chemists including students concerned with the study of living systems as energy converters

Principles of Quantitative Living Systems Science James R. Simms, 2005-12-02 In 1978 when the book *Living Systems* was published it contained the prediction that the sciences that were concerned with the biological and social sciences would in the future be stated as rigorously as the hard sciences that study such nonliving phenomena as temperature distance and the interaction of chemical elements *Principles of Quantitative Living Systems Science* the first of a planned series of three books begins an attempt to fulfill that prediction The view that living things are similar to other parts of the physical world differing only in their complexity was explicitly stated in the early years of the twentieth century by the biologist Ludwig von Bertalanffy His ideas could not be published until the end of the war in Europe in the 1940s Von Bertalanffy was strongly opposed to vitalism the theory current among biologists at the time that life could only be explained by recourse to a vital principle or God He considered living things to be a part of the natural order systems like atoms and molecules and planetary systems Systems were described as being made up of a number of interrelated and interdependent parts but because of the interrelations the total system became more than the sum of those parts These ideas led to the development of systems movements in both Europe and the United States that included not only biologists but scientists in other fields as well Systems societies were formed on both continents

**The Physics of Living Systems** Fabrizio Cleri, 2016-10-08 In this book physics in its many aspects thermodynamics mechanics electricity fluid dynamics is the guiding light on a fascinating journey through biological systems providing ideas examples and stimulating reflections for undergraduate physics chemistry and life science students as well as for anyone interested in the frontiers between physics and biology Rather than introducing a lot of new information it encourages young students to use their recently acquired knowledge to start seeing the physics behind the biology As an undergraduate textbook in introductory biophysics it includes the necessary background and tools including exercises and appendices to form a progressive course In this case the chapters can be used in the order proposed possibly split between two semesters The book is also an absorbing read for researchers in the life sciences who wish to refresh or go deeper into the physics concepts gleaned in their early years of scientific training Less physics oriented readers might want to skip the first chapter as well as all the gray boxes containing the more formal developments and create their own la carte menu of chapters

*Humans as Self-Constructing Living Systems* Martin E. Ford, Donald H. Ford, 2019-03-04 Originally published in 1987 the purpose of this companion volume to Donald Ford's 1987 *Humans as Self Constructing Living Systems A Developmental Perspective on Personality and Behavior* was to illustrate the potential utility of the Living Systems Framework LSF for stimulating new theoretical advances for guiding research on human behavior and development and for facilitating the work of the health and human service

professions Although not exactly a how to manual it does provide many concrete examples of how and when the framework can be used to guide scholarly and professional activities It also provides a concise overview of the framework itself that can help those who have read the theoretical volume refresh their memory and assist those who have not in understanding the basic concepts of the LSF and in deciding whether and how the framework might be useful to them

**Investigations into Living Systems, Artificial Life, and Real-World Solutions** Magoulas, George D.,2013-04-30 This book provides original research on the theoretical and applied aspects of artificial life as well as addresses scientific psychological and social issues of synthetic life like behavior and abilities Provided by publisher

**Living Systems Information Therapy LSIT** Bodo Köhler,2019-09-23 LSIT is based on the scientific foundation of quantum physics This deals with holistic structures and their interactions The high dynamics of life is achieved by constantly changing relationships and opportunities combined with a high gain of experience This improves the adaptability and the chances of survival Everything is subject to a higher meaning communicated to us about spiritual needs We are spirit driven beings who inhabit a body subject to electrodynamic laws Each action requires information and energy which we call up about our intentions Diseases can be treated with medication These transmit certain healing information The LSIT uses this information directly without need of pills That s what makes them so efficient It is capable of initiating healing processes even in advanced diseases The author Dr Bodo Koehler MD born in 1948 has more than 45 years of experience in the clinic and his own practice as an internist with extensive additional training Since 1980 he has been one of the pioneers of bioenergetic measurement and therapy procedures A lot of his developments are now standard in many practices The author is a lecturer at home and abroad

*Thermodynamic Limit to the Existence of Inanimate and Living Systems* Andreas Paglietti,2014-03-01 This book provides an effective research tool to be used in the broad field of the natural sciences It is based on nature s most fundamental laws the first and second laws of thermodynamics and applies them in a novel and previously unexplored way The book explains the theoretical basis of the approach presented and discusses its various applications in various domains such as material strength electrochemistry and biological cells The method is quite effective at answering new or unsolved problems and paving the way for new applications The book is addressed to scientists and researchers in all natural scientific domains including physics chemistry material sciences and biophysics Chapter 1 introduces the classical thermodynamics concepts employed in the book which will appeal to a wide variety of readers from various backgrounds Chapters 2 through 5 describe the core of the approach The five chapters that follow explore applications in elasticity electrochemistry and biophysics Three appendices at the end of the book cover more specialised subjects about the thermodynamics of reacting mixtures making the book rather self contained

**Living Systems, Evolving Consciousness, and the Emerging Person** Louis Sander,2012-05-22 This collection of previously published papers can be viewed as a story of the gradual emergence of an overarching idea through the course of a life s work The idea concerns the way emerging knowledge of developmental processes biological systems and therapeutic

process can be integrated in terms of basic principles that govern the living system as an ongoing creative process a process in which there is a continuing impetus both energizing and motivational that moves the living system toward an enhanced coherence in its engagement with its surround as it achieves an ever increasing inclusiveness of complexity The papers have been selected in a roughly chronological order from a career of early developmental research within the background of psychoanalytic thinking The biological underpinnings of psychoanalysis can be extended by systems thinking Our notions of the evolution of consciousness can also be extended from this simple level of a neural machinery essential for adaptation and survival to the capacity for the awareness of one's own inner state within the flow of one's engagement with one's surround From this enrichment of inner experiencing through evolving self awareness the unique organization of the person emerges within the developmental process from expectancies and emotions to values meaning purpose goals and direction The title of the book has been chosen to capture this sequence Further evolution of conscious organization will enable the human species to achieve the state of being together with and yet distinct from as the system as a whole on a wider more global level gains increasing coherence as its complexity increases Hopefully the implications of this idea will emerge in the reader's thinking as the chapters move from the level of adaptation to recognition

**A Living Systems Theory of Vocational Behavior and Development** Fred W. Vondracek, Donald H. Ford, Erik J. Porfeli, 2014-07-03 The Living Systems Theory of Vocational Behavior and Development LSVD explains and illustrates the processes by which individuals construct their work experiences vocational pathways and career patterns through episodes of interaction with affordances they recognize within their contexts and how counseling can facilitate those processes The LSVD was created by combining the scientifically based systems theory that explicates the dynamics of all aspects of human functioning and development called Humans as Self Constructing Living Systems with important ideas about vocational behavior and development The resulting integrative theory represents the individual person as a dynamic self directing and self constructing entity i.e. a living system Behavior Episodes BEs are the fundamental person in context dynamic units of analysis that serve as the building blocks by which individuals construct and retain their experiences in patterns that can be reactivated to facilitate future BEs The book describes how individuals' history of satisfying BEs and their current activities provide the means by which vocational and career counselors can assist them to create satisfying vocational pathways It also describes for researchers how new non linear person centered quantitative and qualitative research methods can be used to analyze BE patterns to advance understanding of person level processes that play key roles in individuals' vocational behavior and development The LSVD was designed to be not just an integrative framework for the field of career development but also to reconnect the field to related areas such as human resources and industrial organizational psychology and to the range of human sciences that have already embraced a living systems theoretical model

*Multistability in Physical and Living Systems* Alexander N. Pisarchik, Alexander E. Hramov, 2022-04-13 This book starts with an introduction to the basic concepts of multistability then

illustrates how multistability arises in different systems and explains the main mechanisms of multistability emergence A special attention is given to noise which can convert a multistable deterministic system to a monostable stochastic one Furthermore the most important applications of multistability in different areas of science engineering and technology are given attention throughout the book including electronic circuits lasers secure communication and human perception The book aims to provide a first approach to multistability for readers who are interested in understanding its fundamental concepts and applications in several fields This book will be useful not only to researchers and engineers focusing on interdisciplinary studies but also to graduate students and technicians Both theoreticians and experimentalists will rely on it in fields ranging from mathematics and laser physics to neuroscience and astronomy The book is intended to fill a gap in the literature to stimulate new discussions and bring some fundamental issues to a deeper level of understanding of the mechanisms underlying self organization of matter and world complexity

**Advances in Electromagnetic Fields in Living Systems** James C. Lin, 2005-07-29 This comprehensive and topical volume presents a number of significant advances on many fronts in this area of research particularly emphasizing current and future biomedical applications of electromagnetic fields

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