

V. G. Gorshkov

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Physical and  
Biological Bases of  
**Life Stability**

Man, Biota, Environment



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# Physical And Biological Bases Of Life Stability Man Biota Environment

**Arthur P Cracknell, Costas A Varotsos**



## **Physical And Biological Bases Of Life Stability Man Biota Environment:**

**Physical and Biological Bases of Life Stability** Victor G. Gorshkov, 2012-12-06 It is well known that the biochemical processes of life on Earth are maintained by the external solar radiation and can be reduced to the synthesis and decomposition of organic matter Man has added the synthesis and decomposition of various industrial products to these natural processes On one hand biological synthesis may only be conducted within the rather narrow margins of parameters of the environment including temperature humidity concentrations of the inorganic substances used by life such as carbon dioxide oxygen etc On the other hand the physical and chemical composition of the environment suffers significant changes during those processes of synthesis and decomposition The maximum possible rate of such change due to the activity of living beings can exceed the average geophysical rates of change of the environment due to activity of terrestrial depths and cosmic processes by a factor often thousand In the absence of a rigid correlation between the biological synthesis and decomposition the environment would be greatly disturbed within a decade and driven into a state unfit for life A lifeless Earth however would suffer similar changes only after about a hundred thousand years Preservation of the existing state of the environment is only possible with strict equality between the rates of biological synthesis and decomposition that is when the biochemical cycles of matter are virtually closed Physical and Biological Bases of Life Stability Victor G.

Gorshkov, 1994-11-23 It is well known that the biochemical processes of life on Earth are maintained by the external solar radiation and can be reduced to the synthesis and decomposition of organic matter Man has added the synthesis and decomposition of various industrial products to these natural processes On one hand biological synthesis may only be conducted within the rather narrow margins of parameters of the environment including temperature humidity concentrations of the inorganic substances used by life such as carbon dioxide oxygen etc On the other hand the physical and chemical composition of the environment suffers significant changes during those processes of synthesis and decomposition The maximum possible rate of such change due to the activity of living beings can exceed the average geophysical rates of change of the environment due to activity of terrestrial depths and cosmic processes by a factor often thousand In the absence of a rigid correlation between the biological synthesis and decomposition the environment would be greatly disturbed within a decade and driven into a state unfit for life A lifeless Earth however would suffer similar changes only after about a hundred thousand years Preservation of the existing state of the environment is only possible with strict equality between the rates of biological synthesis and decomposition that is when the biochemical cycles of matter are virtually closed **Stability of Life on Earth**, 2004-03-02 This book shows how human activity on local regional and global scales has perturbed natural biogeochemical cycles colliding with Nature The authors demonstrate how the scale and intensity of human induced destruction of Nature and resultant feedback mechanisms have continuously expanded They consider the likelihood of increasing numbers of natural disasters as a result of such activities and propose that sustainable

development become a principal research topic for the 21st Century      Global Stability through Decentralization? Peter A. Wilderer, Martin Grambow, 2015-12-11 The authors of this book who represent a broad range of scientific disciplines discuss the issue of centralized versus decentralized control and regulation in the context of sustainable development The stability and resilience of complex technical economic societal and political systems are commonly assumed to be highly dependent on the effectiveness of sophisticated mainly centralized regulation and control systems and governance structures respectively In nature however life is mainly self regulated by widespread mainly DNA encoded control mechanisms The fact that life has endured for more than 2 4 billion years suggests that for man made systems decentralized control concepts are superior to centralized ones The authors discuss benefits and drawbacks of both approaches to achieving sustainability providing valuable information for students and professional decision makers alike      Quality of Human Resources: Education - Volume I Natalia P. Tarasova, 2009-11-10 Quality of Human Resources Education is a component of Encyclopedia of Human Resources Policy Development and Management which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty one Encyclopedias The Theme is organized into five different topics which represent the main scientific areas of the theme Foundations of Educational Systems Knowledge for Education Structural Foundations of Educational Systems Educational Systems Case Studies and Educational Indices Education for Sustainable Development Each of these consists of a topic chapter emphasizing the general aspects and various subject articles explaining the background theory and practice of a specific type of education which is a very important factor in human development and awareness for achieving global sustainable development These three volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs      **Biotic Regulation of the Environment** Victor Gorshkov, A.M. Makarieva, V.V. Gorshkov, 2000-06-14 It is not possible to understand the apparent stability of the Earth's climate and environment unless we can fully understand how the best possible environmental conditions may be maintained for life to exist Human colonization of areas with natural biota for industrial or agricultural activities will lead to degradation of those natural communities and violation of the BRE biotic regulation of the environment principle Thus to maintain an environment on Earth that is suitable for life it is necessary to preserve and allow the natural recovery of natural biotic communities both in the oceans and on land This book is devoted to a quantitative version of the BRE concept and is built on a foundation of modern scientific knowledge accumulated in the fields of physics and biology      **Landscape Ecology in Asian Cultures** Sun-Kee Hong, Jianguo Wu, Jae-Eun Kim, Nobukazu Nakagoshi, 2010-12-25 Cultural landscapes are a product of the interactions between humans and natural settings They are landscapes and seascapes that are shaped by human history and land use Socioeconomic processes especially but also environmental changes and natural disturbances are some of the forces that make up landscape dynamics To understand and manage such complex landscapes interdisciplinary and

transdisciplinary approaches are necessary emphasizing the integration of natural and social sciences and considering multiple landscape functions The spatial patterns of Asian landscapes are strongly related to human activities and their impacts Anthropogenic patterns and processes have created numerous traditional cultural landscapes throughout the region and understanding them requires indigenous knowledge Cultural landscape ecology from a uniquely Asian perspective is explored in this book as are the management of landscapes and land use policies Human dominated landscapes with long traditions such as those described herein provide useful information for all ecologists not only in Asia to better understand the human environmental relationship and landscape sustainability

**Use of Landscape Sciences for the Assessment of Environmental Security** Irene Petrosillo, Felix Müller, K. Bruce Jones, Giovanni Zurlini, Kinga Krauze, Sergey Victorov, Bai-Lian Li, William G. Kepner, 2007-10-24 This book examines environmental security from the perspective of landscape sciences identifying the forces that threaten environmental security at all levels It stems from the last five years of the Pilot Study Project on Use of Landscape Sciences for Environmental Assessment sponsored by the NATO Committee on the Challenges of Modern Society Readers explore concepts of environmental security from subjective and objective perspectives

**Mechanisms of Forest Ecosystems Sustainability in a Changing Climate** Erland G. Kolomyts, 2024-09-16 The author's working concept of geo ecological monitoring is presented For the first time the full triad of monitoring in its classical definition is considered observation state assessment control prediction management adaptation feedback regulation The strategic goal of described monitoring research is to reveal the environmental potential of sustainability of forest ecosystems in the context of modern global warming The monograph expounds the main statements of author's topographical predictive concept Global Changes on the Local Level as a basis of ground biogeological and geosystem monitoring of natural ecosystems under global anthropogenic climatic changes This concept makes it possible to carry out local empirical simulation of the regional bioclimatic trend and thereby reveal the mechanisms of transmission of global and regional climate signals to the local level On the example of the Volga River basin predictive empirical statistical models of the carbon balance of forest ecosystems are presented under conditions of a changing climate The carbon content in various pools of boreal and nemoral forests were calculated The global climate models give prognostic estimates of the components of them carbon balance A quantitative assessment of the ecological resources of forest formations that provide the environment sustainability through mechanisms of regulation of the carbon cycle is given The adaptation of forest ecosystems to climate change is described through the calculated parameters of their functional sustainability

*Strategies for Sustainability of the Earth System* Peter A. Wilderer, Martin Grambow, Michael Molls, Konrad Oexle, 2021-09-20 This volume builds on an international workshop held in 2019 inspired by James Lovelock's *The Revenge of Gaia* Why the Earth Is Fighting Back and How We Can Still Save Humanity It therefore understands the Gaia concept as an umbrella term for the living world that planet Earth is hosting for nearly 4 billion years Humankind has intervened in this ecosystem since its

emergence on the planet about 2 5 million years ago often with painful consequences for itself In its reactions the Earth system follows only the laws of nature Consequently humanity needs to develop strategies for a sustainable Earth system This volume presents a unique trans and interdisciplinary variety of approaches to this challenge offering philosophical considerations as well as practical medical research It addresses a broad knowledgeable and general audience in environmental management public administration and higher education alike

**Understanding Global Climate Change** Arthur P Cracknell, Costas A Varotsos, 2021-07-28 Climate change a familiar term today is far more than just global warming due to atmospheric greenhouse gases including CO<sub>2</sub> In order to understand the nature of climate change it is necessary to consider the whole climatic system its complexity and the ways in which natural and anthropogenic activities act and influence that system and the environment Over the past 20 years since the first edition of Understanding Global Climate Change was published not only has the availability of climate related data and computer modelling changed but our perceptions of it and its impact have changed as well Using a combination of ground data satellite data and human impacts this second edition discusses the state of climate research today on a global scale and establishes a background for future discussions on climate change This book is an essential reference text relevant to any and all who study climate and climate change Features Provides a thought provoking and original approach to the science of climate Emphasises that there are many factors contributing to the causation of climate change Clarifies that while anthropogenic generation of carbon dioxide is important it is only one of several human activities contributing to climate change Considers climate change responses needed to be undertaken by politicians and society at national and global levels Totally revised and updated with state of the art satellite data and climate models currently in operation around the globe

**Technology and Vocational Education for Sustainable Development** Margarita Pavlova, 2008-12-14 Empowerment is the overarching idea used in this book The term has a variety of meanings in different sociocultural and political contexts including self strength control self power self reliance own choice life of dignity in accordance with one's values capable of fighting for one's rights independence own decision making being free awakening and capability The World Bank 2002 p 10 However the World Bank report observed that most definitions focus on issues of gaining power and control over decisions and resources that determine the quality of one's life p 10 This interpretation of empowerment provides a useful starting point for the development of the series of interconnected arguments explored here Establishment of the basis for understanding identifying and developing strategies through education necessary for individuals to be able to make choices that influence the quality of their lives is the main aim of this book There are a number of assumptions and boundaries that frame this analysis First the book focuses on agents however empowerment is often conceptualised in terms of relationships between agency and structure e g Alsop Bertelsen H land 2006 Agency could be defined as an actor's or group's ability to make purposeful choices that is the actor is able to envisage and purposively choose options p 11

*Global change situations* Kirill I A Kovlevich Kondrat'ev, Ignacio

Galindo,2001 A bilingual edition of economic analysis of recent changes in a globalized world with focus on ecological trends and natural resources

**The Power of Story** Harold R. Johnson,2022-10-11 A CBC BEST NONFICTION BOOK OF 2022 Longlisted for the First Nations Communities READ Award Award winning Indigenous author Harold R Johnson discusses the promise and potential of storytelling Approached by an ecumenical society representing many faiths from Judeo Christians to fellow members of First Nations Harold R Johnson agreed to host a group who wanted to hear him speak about the power of storytelling This book is the outcome of that gathering In The Power of Story Johnson explains the role of storytelling in every aspect of human life from personal identity to history and the social contracts that structure our societies and illustrates how we can direct its potential to re create and reform not only our own lives but the life we share Companionable clear eyed and above all optimistic Johnson s message is both a dire warning and a direct invitation to each of us to imagine and create together the world we want to live in

Reconsidering the Limits to Growth Viktor Sadovnichy,Askar Akaev,Ilya Ilyin,Sergey Malkov,Leonid Grinin,Andrey Korotayev,2023-09-25 Echoing the famous The Limits to Growth report from 1972 this edited volume analyses the changes that the World System has undergone to the present on the fiftieth anniversary of the original report During the past fifty years both the concept and understanding of these limits have significantly changed This book highlights that the evolution of the World System has approached a new critical milestone moving into a fundamentally new phase of historical development when the old economic and social technologies no longer work as efficiently as before or even begin to function counterproductively which leads the World System into a systemic crisis The book discusses the transition of human society to a new phase state the shape of which has not yet been determined New approaches are needed for both for the analysis of the global situation and for forecasts The book is based on an integrated approach including the world systems historical and evolutionary perspectives as well as a systematic view of society in which changes in one subsystem cause transformations in others Through mathematical modeling it defines the main vectors of transformations of the World System makes a detailed forecast of the development of all the main subsystems of the society and the World System while presenting horizons of changes from short term to ultra long term and presents different development scenarios as well as recommendations on how to achieve a transition to the most favorable scenario The book will appeal to members and followers of the Club of Rome policy makers as well as to scholars from various disciplines interested in a better understanding of the World System evolution global futures development studies climate change and future societies

**Sustainable Development and the Limitation of Growth** Victor I. Danilov-Danil'yan,K. S. Losev,Igor E. Reyf,2009-03-27 2007 marked the 20th anniversary of the G H Brundtland Commission report that broke new ground by addressing the issue of sustainable development as a means of avoiding an ecological catastrophe This led to a multitude of political declarations documents and scientific articles while Agenda 21 adopted in 1992 in Rio de Janeiro has been accepted by the governments of more than 100 countries Sadly however this has not prevented certain recent dangerous trends nor

have the wider public journalists business circles or politicians grasped the urgency of the problem It is therefore important to make humanity understand its real place in the natural environment and the gravity of the ecological threat before us The exclusive role of natural ecosystems is a key factor in the maintenance of the biospheric equilibrium The current global crisis is largely caused by their dramatic decline by 43% in the past hundred years Ignoring the immutable laws and limitations which determine the existence of all living things in the biosphere could lead humanity to an ecological catastrophe This book presents the ecological demographic economic and socio psychological manifestations of the global crisis and outlines the immutable laws and limitations which determine the existence of all living things in the biosphere      *Observing Global Climate Change* Kyrill Ya Kondratyev, Arthur P. Cracknell, 2017-12-14 This collaborative book aims to offer a comprehensive introduction to global climate the way it is currently changing the role of earth air and satellite observation and monitoring and subsequent climate modelling It focuses on the interaction between natural and anthropogenic human made change factors The book emphasizes the importance of capturing climatic data and the use of that data in computer based climatic modelling      *Landscape Patterns in a Range of Spatio-Temporal Scales* Alexander V. Khoroshev, Kirill N. Dyakonov, 2020-03-23 This book presents the polycentric and multiscale view of landscape which has been developed in Russia within a framework of physical geography since the early twentieth century The authors develop the ideas of hierarchical organization of a landscape and strong relationships between abiotic and biotic components with equal attention to both vertical fluxes and lateral transfer Three dimensional representation of landscape involves strong emphasis on abiotic drivers of pattern development including relief geological structures and runoff The objective of this book is to demonstrate the multiplicity of models and multiscale approach to description and explanation of landscape pattern functioning dynamics and evolution The contributions deal with various hierarchical levels ranging from within unit interior variability to between units interaction at landscape level as well as regional and supra regional zonal patterns Divided into 8 clear parts the 28 chapters treat spatial pattern in one of the following aspects indicator of actual matter and energy flows control over actual processes including disturbance expansion as well as determinant of future development indicator of genesis and prerequisite for future trends driver for short term dynamics of processes response to climatic and anthropogenic influences factor of settlement network and land use adaptation at various historical epochs framework for actual land use spatial arrangement This contributed volume is written for researchers and students in the field of landscape ecology physical geography environmental impact assessment and ecological planning      **Space and Beyond** B. N. Suresh, 2021-04-17 This book discusses the journey of Dr K Kasturirangan who shares his experience during his long tenure at ISRO including the Chairmanship of ISRO subsequently membership of the Rajya Sabha the Planning Commission and many other responsibilities Over the past five decades of public and professional service to the nation Dr Kasturirangan has graduated from a young researcher in astrophysics working under Vikram Sarabhai to leading India s space program ISRO being



entrusted by five successive Prime Ministers besides dealing with several other domains of responsibilities beyond space all of which have significantly impacted India's development. This book centers around select 12 public invited lectures Dr Kasturirangan delivered ranging from developing hi tech space systems to managing an organization as intricate as ISRO which was guided by the wisdom of mentors including Vikram Sarabhai, M G K Menon, Satish Dhawan and U R Rao to tackling multi faceted socio economic issues including India's nuclear deal report headed by him on the Western Ghats ecosystem and the new National Education Policy 2020. Scientists, historians, policy makers, management strategists, journalists or anyone with a keen interest in understanding the processes behind such large scale science technology and socio economic endeavors right from planning creating appropriate institutional mechanisms working with multiple stakeholders to ensure that these programs deliver tangible benefits to society articulating these benefits with clarity to political leaders to assure public support will find this book deeply instructive and illuminating. It will be of interest to the scientific education and management community as well as to policy makers and researchers affiliated with multifaceted developmental issues.

*Constructive Processing of Microwave and Optical Data for Hydrogeochemical Applications* Costas A. Varotsos, Vladimir F. Krapivin, Ferdenant A. Mkrtchyan, Yong Xue, 2023-05-24. This book presents results of the combined use of microwave remote sensing optical tools and ecoinformatics methods under solution applied tasks at both regional and global scales. Ecoinformatics methods are used to assess links between global climate change and the level of ocean pollution with specific focus on the Arctic Ocean, the Sea of Okhotsk and the South China Sea. The theoretical and applied aspects of instrumental tools are considered in this book as a basis for the monitoring of water quality in various watersheds with particular attention to microwave remote sensing monitoring data to determine the ecotoxicological status of hydro ecosystems affected by climate change. The book develops new information technologies that provide solutions for hydrochemical tasks using algorithms and models based on computer technologies for big data processing. This will help to synthesize effective computer based systems for the solution of problems arising due to anthropogenic impacts on hydrological processes and objects at various spatial scales. This book is intended for specialists in the fields of environmental monitoring, climate change, human nature interactions and geopolitics. The book will be useful for undergraduate and postgraduate students studying these fields of science as well.

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