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A vital step towards the truth

V. M. Chernousenko

Chernobyl

Insight from the Inside

1991. Approx. 305 pp. 42 figs. 18 tabs. 80 photographs. Hardcover
ISBN 3-540-53698-1

Contents: Black Rain. – The Explosion. – Who is to Blame? Design or Staff? – The Zone. – The Sarcophagus. – In the Jaws of Hell. – The Rectifiers: Then and Now. – Radiophobia. – Hostages. – Beyond the Limits. – Doctor, Will I Live? – Mutants! What next? – Poisoned Waters. – Risk, or How Safe is our Safety? – What is to be Done? – Appendix.

Chernousenko's **Chernobyl** is a first-hand account of the events and facts surrounding this global disaster:

The first part of the book includes an absorbing account of what happened at Chernobyl nuclear power station on April 26, 1986, as well as a review of the rectification measures taken so far. The author re-analyzes the causes of the accident, confronting us with startling details about critical design faults in the (RBMK) reactors of the Chernobyl type (of which another 15 are still in operation in the Soviet Union!).

The second part deals with the long-range and long-term effects of the catastrophe on man and environment, including a wealth of yet unpublished data along with proposals for future action.

Physicist Vladimir Chernousenko is eminently qualified to write on this topics: In 1986 he was appointed representative of the Ukrainian Academy of Sciences in Chernobyl and the "Zone". He worked in the so-called Special Zone (10-km radius around the reactor) where he received large radiation doses. He was co-author of the internal Government Report for President Gorbachev and the Supreme Soviet. Until 1991 he was scientific director of the 30-km exclusion zone. This book is a vital step towards establishing the truth about the causes of the accident and—even more important—the actual scale of its aftermath. It provides the specialist with the scientific and medical data needed for further investigation and for designing effective countermeasures, while the lay reader will profit most from the absorbing accounts and personal statements of eyewitnesses and other people directly affected by the catastrophe.

A unique collection of photographs adds further poignancy to the written descriptions. Appendices are added to explain the most important technical terms for the non-specialist and to provide technical details for the specialist. The book is of equal interest to natural scientists, medics and interested laypersons.



W. Wolff, C.-J. Soeder, F. R. Drepper (Eds.)

Ecodynamics

Contributions to Theoretical Ecology

Proceedings of an International Workshop, Held at the Nuclear Research Centre, Jülich, FRG, 19-20 October, 1987

1988. XI, 351 pp. 116 figs. (Research Reports in Physics) Hardcover
ISBN 3-540-50116-9

Contents: Evolution. – Marine and Lake Ecodynamics. – Ecosystems Analysis. – Forest Ecosystems. – Modelling Approaches. – Index of Contributors.

Theoretical ecology deals with the principles of the interaction and dynamics of ecosystems basic to the wealth of ecological phenomena. The contributions to the first international workshop on ecodynamics mainly take a deductive approach to theoretical ecology and its application to epidemiology, forest damage and fishery. The book concentrates on strategies of modeling, evolution, population dynamics, the dynamics of ecosystems, mechanisms of control and nonlinearity. It presents new methods such as the statistical dynamical analysis of evolution strategies or interactive micro simulations, thus giving a comprehensive overview of current developments in theoretical ecology.

S. S. Zilitinkevich (Ed.)

Modeling Air-Lake Interaction

Physical Background

1991. XI, 129 pp. 29 figs. (Research Reports in Physics) Hardcover
ISBN 3-540-52988-8

Current concern about the stability of our climatic system in light of the influx of man-made components makes the topic of this book, theoretical modeling of a microclimate, of supreme importance.

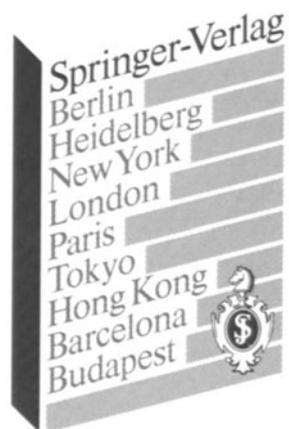
Beyond an explanation of the theory of various air-lake interactions, the author provides instructions for convenient numerical parametrizations.

Five major subjects are covered:

- (1) the atmospheric planetary boundary layer (PBL),
- (2) energy transfer at the air-water interface,
- (3) wind-induced drift of surface films,
- (4) thermal regime and mixing conditions in lakes, and
- (5) the thermal bar.

The author, S. S. Zilitinkevich, is a well-respected Soviet scientist, very much in demand as a guest at western meteorological institutes. This is his first book in English.

Modeling Air-Lake Interaction is intended for students and researchers in climatology and its subdisciplines.



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