

## NATO SCIENCE SERIES COLLECTION IN THE CENTRAL SCIENTIFIC LIBRARY „A. LUPAN” OF ASM

VALENTINA TCACENCO, LUDMILA GHELETA

BȘC „Andrei Lupan”

There are different kinds of collections in our library, the famous ones and not very. One of the famous collections of the books for the scientists and researches is the NATO Science Series.

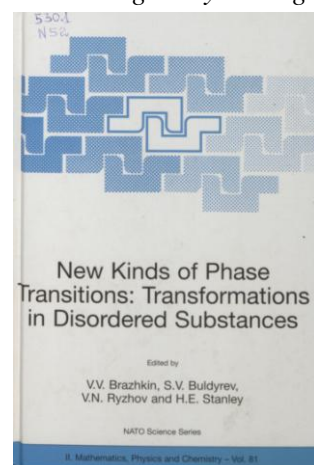
The NATO Science Series presents the results of scientific meetings sponsored by the NATO Science Committee, which aims at the dissemination of advanced scientific and technological knowledge, with a view to strengthening links between scientific communities. The types of scientific meeting generally supported are „Advanced Study Institutes” and „Advanced Research Workshops”.

The series is published by an international board of publishers in conjunction with the NATO Scientific Affairs Division. Publications are grouped by subject area:

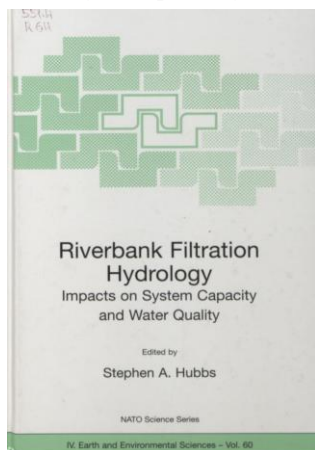
- ✓ Mathematics, Physics and Chemistry;
- ✓ Computer and Systems Science;
- ✓ Earth and Environmental Science;
- ✓ Life and Behavioural Sciences;
- ✓ Science and Technology Policy.

There are 147 titles of the NATO Science Series in the Central Scientific Library „Andrei Lupan” of the Academy of Sciences of Moldova. The priority has the *Mathematics, Physics and Chemistry* subseries. There are 76 titles of this subseries in our library: *Symmetry and Heterogeneity in High Temperature Superconductors; Superdense QCD Matter and Compact Stars; Frontiers in Planar Lightwave Circuit Technology; Advanced Radiation Sources and Applications; Defects in High-k Gate Dielectric Stacks: Nano-Electronic Semiconductor Devices; New Kinds of Phase Transitions: Transformations in Disordered Substances; Electron Crystallography: Novel Approaches for Structure Determination of Nanosized Materials; Non-Linear Dynamics and Fundamental Interactions* etc. [1-8].

Computer software is a pervasive factor in advancing the progress and increasing the efficiency of industry, science,

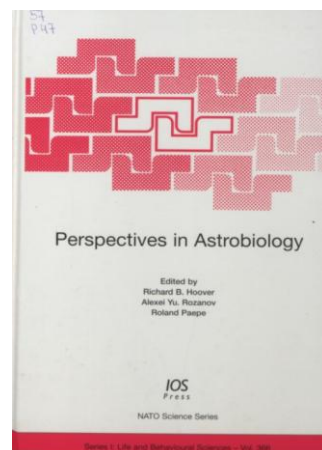


commerce and communication. In *Computer and Systems Sciences* subseries we have: *Computational Commutative and Non-Commutative Algebraic Geometry*; *Engineering Structures under Extreme Conditions: Multi-Physics and Multi-Scale Computer Models in Non-Linear Analysis and Optimal Design*; *Concurrent Information Processing and Computing*; *Differential Geometry and Topology*, *Discrete and Computational Geometry*; *Network Empowerment*; *Security and Privacy in Advanced Networking Technologies* *Security and privacy in advanced networking technologies* etc. [9-14].

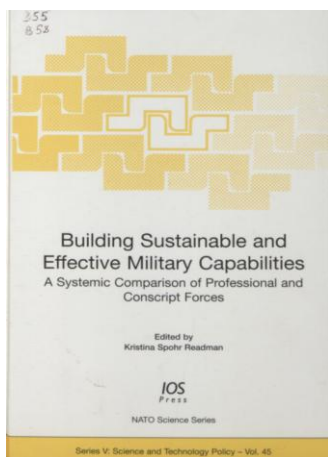


The *Earth and Environmental Science* subseries covered areas related to climate change, disaster prevention and forecast, transboundary water resources and transfrontier air pollution: *Advances in Air Pollution Modeling for Environmental Security*; *Transboundary Water Resources: Strategies for Regional Security and Ecological Stability*; *Advances in the Geological Storage of Carbon Dioxide: International Approaches to Reduce Anthropogenic Greenhouse Gas Emissions*; *The Comparative Roles of Suspension-Feeders in Ecosystems*; *Riverbank Filtration Hydrology: Impacts on System Capacity and Water Quality*; *Graundwater and Ecosystems*; *Modern Tools and Methods of Water Treatment for Improving Living Standards*; *The Current Role of Geological Mapping in Geosciences*; *Transboundary Floods: Reducing Risks Through Flood Management*; *Assessment and Remediation of Contaminated Sediments*; *Bioremediation of Soils Contaminated with Aromatic Compounds* etc. [15-25].

*Life and Behavioural Sciences* subseries includes biology, agriculture and food sciences, medical and behavioural sciences: *Strengthening Influenza Pandemic Preparedness through Civil-Military Cooperation*; *Risk Infections and Possibilities for Biomedical Terrorism*; *Perspectives in Astrobiology*; *A New Model for Analyzing Antimicrobial Peptides with Biomedical Applications*; *Endoplasmic Reticulum: A Metabolic Compartment*; *Structure, Dynamics and Function of Biological Macromolecules and Assemblies*; *Radiation Inactivation of Bioterrorism Agents*; *Free Radicals and Diseases: Gene Expression, Cellular Metabolism and Pathophysiology* etc. [26-33].



In *Science and Technology Policy* subseries covers new research technologies, scientific research training and technology transfer, management of science: *Prospects of Integration and Development of R&D and the Innovation Potential of Black Sea Economic Co-operation Countries; Science Education; Supporting the Development of R&D and the Innovation Potential of Post-Socialist Countries; Building Sustainable and Effective Military Capabilities: a Systemic Comparison of Professional and Conscript Forces; R&D Priorities in Innovation Policy and Financing in Former Socialist Countries; Science Education: Best Practices of Research Training for Students under 21; Ecological Agriculture and Rural Development in Central and Eastern European Countries* etc. [34-40].



It should be noted *NATO Science for Peace and Security Series* originally published with the title *NATO Security through Science Series*. Subserie A *Chemistry and Biology* deals with scientific solutions to food security, medical countermeasures, infectious diseases or vaccines, as well as pharmacology and toxicology, biotechnology and genetics. Volumes in the *Physics and Biophysics* subserie B are covered topics such as detectors, biosensors and biotechnology processing. Subserie C *Environmental Security* deals with scientific and technological aspects of innovative and promising projects related to environmental chemistry, decision support systems/risk assessment, regional environmental problems. *Human and Societal Dynamics* subserie E deals with new challenges for global security, human resource management, education, training, mobility and exchanges of personnel etc. [41-44].

The variety of different subjects allows our scientists to use the information for their research.

We have to mention that the major part of the collection was filled up by the ex-president Mr. A. Andries, who had many books of his own from this collection and gifted them to the library.



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