

Integrated Transboundary Water Management In Theory And Practice

After the sovjet era and since their independence the new Central Asian countries are rebuilding a system of water resources management: an important challenge for the development of the whole region. The NATO workshop held on 25-27 August 2003 by the Federal Agency for Nature Conservation, Germany and the Siberian Branch of the Russian Academy of Science, attended by experts from five Central Asian countries, Russia, six Western European countries, the US and the UNEP offered water engineers and nature scientists as well as economic and political scientists and practitioners from water administrations and international river commissions to meet in Novosibirsk and develop sustainable approaches in the management of Central Asian water resources. This book presents important aspects of transboundary water resources, i.e. the global water crisis:

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problems and perspectives; regional experiences in solving water problems in Central Asia; problems and management of transboundary water resources; ecological and economic aspects of water management; scientific analysis and tools of water changes; strategic implications of water access arisen during the workshop. A final recommendation in the area of equitable sharing of benefits, monitoring and data collection as well as proposals for Central Asia transboundary waters programme were set in the book as the main result of the meeting.

Surface and groundwater resources do not recognize political boundaries. Where nature and boundary cross, tension over shared water resources can erupt. Such tension is exacerbated in regions where demand approaches or exceeds sustainable supplies of water. Establishing equitable management strategies can help prevent and resolve conflict over shared water resources. This paper describes a methodology for addressing transboundary water issues predicated on the integration of monitoring and modeling

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within a framework of cooperation. Cooperative monitoring begins with agreement by international scientists and/or policy makers on transboundary monitoring goals and strategies; it leads to the process of obtaining and sharing agreed-upon information among parties with the purpose of providing verifiable and secure data. Cooperative modeling is the process by which the parties jointly interpret the data, forecast future events and trends, and quantify cause and effect relationships. Together, cooperative monitoring and modeling allow for the development and assessment of alternative management and remediation strategies that could form the basis of regional watershed agreements or treaties. An example of how this multifaceted approach might be used to manage a shared water resource is presented for the Kura River basin in the Caucasus.

The book provides a cross-sectoral, multi-scale assessment of development-directed investigations in the main rivers of wider Central Asia and Afghanistan. The book highlights the development of river systems, water reservoirs, ecosystems

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and risks as well as the impact of climate change on water resources in Central Asian countries and Afghanistan. It provides information on the genesis of river basins, physical and chemical properties of water in rivers, and the hydrological regimes of the rivers of Central Asia and Afghanistan. The book is useful for scientists and researchers whose work focuses on rivers and the use of water resources, irrigation, ecosystems, risks, water supply, climate change and remote sensing, as well as for students and planners, administrations and other stakeholders in the water sector.

This volume brings together diverse voices relating to the critical issue of water management in one of the world's most politically volatile areas: the Middle East. The book collects the opinions of Palestinians, Israelis, Jordanians as well as international experts on creating a holistic and comprehensive view of water management challenges and strategies in the Middle East.

Transboundary Water Resources: A Foundation for Regional

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Stability in Central Asia

Practical Experiences and Case Studies

A comparative study of River Basin Organizations in Central Asia and Southern Africa

Beyond the success in transboundary water management

Transboundary Water Resources in the ESCWA Region

Science diplomacy and transboundary water management

Transboundary Hydro-Governance

Today, when so many countries share the same transboundary river basins, unilateral water management becomes extremely critical. Joint water management, on the other hand, faces many obstacles, because of states' interests in particular function of the water. Water is needed for drinking, household, irrigation, hydro-energy, fishing, navigation, tourism as well as many other purposes, and unfortunately, it cannot meet all needs simultaneously. The satisfaction of one need often impedes the others. In this regard, transboundary river basins often create challenges among states by leading them to negotiate in asymmetric relations. This book is an attempt to address the effectiveness of transboundary water management from a social and political perspective by offering new theoretical

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underpinnings to understand the success conditions in sharing transboundary water resources. The author focused in the work on three conditions, i.e. institutional conditions and country specific conditions, as well as conditions of regional integrity level and role of external actors. The proposed conditions were tested on two river basins i.e. the successful one in the example of Orange/Senqu river basin and unsuccessful one in the case of Naryn/Syrdarya river basin.

Most large river basins in the world are transboundary. Experience with such basins emphasizes the urgent need for more efficient transnational water management. This book details recent initiatives undertaken in the Meuse basin (North-West Europe) to develop a transnational adaptation strategy to deal with the impact of climate change. In the 21st This book will examine and analyse the problems inherent in integrated water management in transboundary conditions. Integrated Transboundary Water Management in Theory and Practice will provide new knowledge and policy recommendations based on the experiences and results of a major 3-year interdisciplinary research project (MANTRA-East). Drawing on extensive studies of the Lake Peipsi region in Estonia and Russia, the book explores the political and social issues surrounding transboundary water

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management and introduces the way that qualitative-quantitative-qualitative scenarios have been used in real-life situations. The book presents conclusions and policy recommendations for integrated transboundary water management that will be invaluable to water managers, policy-makers and academic researchers working in this rapidly expanding field.

Transboundary Water from Afghanistan: Climate Change, and Land-Use Implications brings together diverse factual material on the physical geography and political, cultural, and economic implications of Southwest Asian transboundary water resources. It is the outgrowth of long-term deep knowledge and experience gained by the authors, as well as the material developed from a series of new workshops funded by the Lounsbery Foundation and other granting agencies. Afghanistan and Pakistan have high altitude mountains providing vital water supplies that are highly contentious necessities much threatened by climate change, human land-use variation, and political manipulation, which can be managed in new ways that are in need of comprehensive discussions and negotiations between all the riparian nations of the Indus watershed (Afghanistan, China, India, and Pakistan). This book provides a description of the basic

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topographic configuration of the Kabul River tributary to the Indus river, together with all its tributaries that flow back and forth across the border between Afghanistan and Pakistan, and the basic elements that are involved with the hydrological cycle and its derivatives in the high mountains of the Hindu Kush and Himalaya. Synthesizes information on the physical geography and political, cultural, and economic implications of Southwest Asian transboundary water resources Offers a basic topographic description of the Indus River watershed Provides local water management information not easily available for remote and contentious border areas Delivers access to the newest thinking from chief personnel on both sides of the contentious border Features material developed from a series of new workshops funded by the Lounsbery Foundation and other granting agencies

Integrated Water Resources Management in Central America

Transboundary Water Resources in Afghanistan

Strengthening International Law for Transboundary Water Management

Ecosystem Approaches in Integrated Water Resources Management (IWRM)

Science, Policy, and Stakeholders in Water Management

Transboundary Water Resources: Strategies for Regional Security and Ecological Stability

Water Resource Management in Central Asia and Afghanistan

The scholarly theme of the book lends itself to the discipline of earth and atmospheric sciences, with a specific focus on water-climate studies. The book is a scholarly discourse by researchers in the natural sciences, including Hydrologists, Climate Scientists, Environmental Engineers and Water Scientists. The purpose of the book is to address the limited complementarity between the water and climate studies; which is crucial in promoting scientific research that informs policy decisions and implementation of water security plans. The chapters were selected to represent water-climate models and policy research conducted in different river basins in the arid and semi-arid environments. Therefore, the water-climate management tools highlighted in this book include General Circulation Models (GCMs), Coupled Model Inter-comparison Project Phase 5 (CMIP5), Soil and Water Assessment Tool (SWAT), Africa Flood and Drought Monitor (AFDM), Extreme Precipitation Events (EPEs), R ClimDex, Mixed strategy game models, Standard Precipitation Indices (SPIs), Water Evaluation and Planning System (WEAP), Penman Calculator, and Saturated Volume Fluctuation (SVF).

This book puts great emphasis on the importance of Integrated Water Resources Management IWRM as the way forward towards food, water, and energy security. It offers better ways and means of managing the limited water resources; using water more efficiently; adopting new policies in order to cope with climate change and drought; increase water supply through the

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use of non conventional water resources, especially waste water; inducing stakeholders participation and information exchange and raise public awareness to the value of water. It is an important book for all those involved in all aspects of water resources and contains valuable information for scientists, researchers, farmers, extension services and students.

Based on an international symposium addressing a key issue in global development, this reference includes both the latest methodologies for and practical examples of effective management of transboundary water resources. Its multidisciplinary approach combines hydrology and environmental science with economic and political approaches, in line with new UNESCO and EU recommendations, which have been formulated and implemented with the active involvement of all three editors. By providing a theoretical framework as well as abundant case studies from southern Europe, Africa, Asia and South America, this handbook provides hydrologists, geologists, engineers and decision-makers with all the knowledge they need for their daily work.

This book, which was first published in 1992 and then updated in 2007, provides a tool for dealing with the legal and institutional aspects of water resources management within national contexts and at the level of transboundary water resources. Like its two previous editions, it seeks to cover all aspects that need to be known in order to attain good water governance, but it provides updates concerning developments since 2007. These relate, inter alia, to the following: - the “greening” of water law, which calls for the progressive integration of environmental law principles into domestic and international water law; - the adoption, by the International Law Commission in 2008, of the Draft Articles on the Law of Transboundary Aquifers, and subsequent developments; - the emergence of the right to water as a self-

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standing human right; - the adoption of domestic water laws supporting integrated water resources management (IWRM) and enhanced public participation in planning and decision making; - the integration into these laws of tools facilitating adaptive water management as a response to climate variability and change; - progress in the implementation of EU law; - recent international agreements and judicial decisions; - efforts of regional organizations other than the EU to steer cooperation in the management of transboundary water resources and the harmonization of national laws; - institutional mechanisms for the management of transboundary water resources (surface and underground). Unique in its scope and nature, the book identifies the legal and institutional issues arising in connection with water resources management and provides guidelines for possible solutions in a manner accessible to a wide range of readers. Thus, it is a useful reference for lawyers and non-lawyers — engineers, hydrologists, hydrogeologists, economists, sociologists — dealing with water resources within government institutions, river basin commissions, international organizations, financing institutions and academic institutions, among other things, and also for students of disciplines related to water resources.

Management of Transboundary Water Resources Under Scarcity

Cases from Africa, Asia, Australia, Latin America and USA

Principles of Water Law and Administration

Achievements of the Orange-Senqu River Commission in Integrated Transboundary Water Resource Management

Transboundary Aquifers in the Eastern Borders of The European Union

Integrated Water Resource Management

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Transboundary Water Cooperation

This book presents case studies that share important experiences regarding Integrated Water Resource Management (IWRM) in various countries. Following an introduction to theoretical concepts, responsibilities, and challenges, the subsequent chapters address, among other topics, an analysis of policies and regulations for water management in Brazil, the drivers that led California to adapt to the IWRM framework, and the international regulations for water markets and water banking in Australia and Chile. The implications of climate change for water resource systems in Mexico are discussed, as well as management strategies from California that could potentially serve as IWRM adaptation schemes in Mexico. Critical cases from Guanacaste (Costa Rica), and from Zayandehrud River Basin and Lake Urmia (Iran) are reviewed in terms of management practices and solutions. The book also provides an overview of the current availability and use of water resources in South Korea, and discusses the management of and international water law instruments for transboundary groundwater in Africa. First Published in 2009. Routledge is an imprint of Taylor & Francis, an informa company.

This open access textbook provides a concise introduction to economic approaches and mathematical methods for the study of water allocation and

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distribution problems. Written in an accessible and straightforward style, it discusses and analyzes central issues in integrated water resource management, water tariffs, water markets, and transboundary water management. By illustrating the interplay between the hydrological cycle and the rules and institutions that govern today's water allocation policies, the authors develop a modern perspective on water management. Moreover, the book presents an in-depth assessment of the political and ethical dimensions of water management and its institutional embeddedness, by discussing distribution issues and issues of the enforceability of human rights in managing water resources. Given its scope, the book will appeal to advanced undergraduate and graduate students of economics and engineering, as well as practitioners in the water sector, seeking a deeper understanding of economic approaches to the study of water management.

Better water management will be crucial if we are to meet many of the key challenges of this century - feeding the world's growing population and reducing poverty, meeting water and sanitation needs, protecting vital ecosystems, all while adapting to climate change. The approach known as Integrated Water Resources Management (IWRM) is widely recognized as the best way forward, but is poorly understood, even within the water sector. Since a core IWRM principle is that good water management must involve the water users, the understanding and

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involvement of other sectors is critical for success. There is thus an urgent need for practical guidance, for both water and development professionals, based on real world examples, rather than theoretical constructs. That is what this book provides. Using case studies, the book illustrates how better water management, guided by the IWRM approach, has helped to meet a wide range of sustainable development goals. It does this by considering practical examples, looking at how IWRM has contributed, at different scales, from very local, village-level experiences to reforms at national level and beyond to cases involving trans-boundary river basins. Using these on-the-ground experiences, from both developed and developing countries in five continents, the book provides candid and practical lessons for policy-makers, donors, and water and development practitioners worldwide, looking at how IWRM principles were applied, what worked, and, equally important, what didnt work, and why. Published with the Global Water Partnership

Transboundary Strategies for Sustainable Use and Protection of Resources

Value of Water

Principles and Practice

Shared Mekong for a Common Future

Integrated Transboundary Water Management in Theory and Practice

The UN Watercourses Convention in Force

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Initiating a Sustainable Co-operative Network

This volume is the result of work carried out under the NATO SPS Study Pilot Project "Sustainable Use and Protection of Groundwater Resources - Transboundary Water Management." It contains basic information on hydrogeological conditions, groundwater management and monitoring in areas of the Belarus, Lithuanian, Polish and Ukrainian borders, simultaneously borders of the European Union with its eastern partners. In view of the importance of the rational utilization of groundwater reserves, which is essential for our future existence, the book presents recommendations for a united methodology of an integrated groundwater monitoring system in this transnational area. The contributions also cover environmental and surface water issues that have direct effects on groundwater resources. The financial dimension of resource mobilization for environmental projects in Eastern Europe also features as part of a complex project solution.

Integrated river basin management is an approach focusing on the development and management of land and water resources in a coordinated manner with the primary aim to ensure society development, which is well balanced from the environmental, economic, and social points of view. It is a complex approach, including all aspects of water resource management (water and aquatic ecosystem protection, disaster management, and water use) and covering a wide range of disciplines (e.g., hydrology, ecology, environmental management, and economy), cross-cutting issues (climate change, data sharing, and stakeholder involvement), and approaches (river basin management plans preparation, water-food-energy-ecosystems nexus assessment, science-policy integration, and transboundary cooperation). This book provides a comprehensive overview of achievements and challenges

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associated with the implementation of the approach throughout the world.

A source of up-to-date information on current water resources, their quality and quantity, in every country in the Balkans. Institutional structures, water management issues and water monitoring problems are analyzed, with special reference to international waters, using characteristic case studies, including the Sava River, Lake Ohrid, The Nestos/Mesta River, the Neretva River estuary, and coastal waters in Turkey. Contributions written by experts from France, the UK and the USA demonstrate state-of-the-art electronic networking and the management of distributed water databases. The protection of water resources in the Balkans has become a high profile issue since the collapse of communism in the area, the break up of former Yugoslavia, and ethnic tensions in Kosovo. Transboundary river pollution and the development of international water basins call demand urgent regional co-operation, which will be facilitated by the International Network of Water-Environment Centres for the Balkans, the initiation of which is described in the final conclusions of the book.

The management of water resources across boundaries, whether sub-national or international, is one of the most difficult challenges facing water managers today. The upstream exploitation or diversion of groundwater or rivers can have devastating consequences for those living downstream, and transboundary rivers can provide a source of conflict between nations or states, particularly where water resources are scarce. Similarly, water based-pollution can spread across borders and create disputes and a need for sound governance. This book is the first to bring together in a concise and accessible way all of the main topics to be considered when managing transboundary waters. It will raise the awareness of practitioners of the various issues needed to be taken into account when making water management decisions

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and provide a practically-based overview for advanced students. The authors show clearly how vital it is to cooperate effectively over the management of shared waters to unlock their contribution to regional sustainable development. The book is largely based on a long-running and tested international training programme, run by the Stockholm International Water Institute and Ramboll Natura, and supported by the Swedish International Development Co-operation Agency (Sida), where the respective authors have presented modules on the programmes. It addresses issues not only of conflict, but also of managing power asymmetries, benefit-sharing, stakeholder participation, international water law, environmental water requirements and regional development. It will be particularly useful for those with a background in hydrology or engineering who wish to broaden their management skills.

A Multidisciplinary Approach

the Orontes River case

Principles for Effective Joint Bodies for Transboundary Water Cooperation under the Convention on the Protection and Use of Transboundary Watercourses and International Lakes

Integrating Monitoring and Decision Modeling Within a Cooperative Framework

Integrated Water Management

Rules and Institutions

Integrated Transboundary Water-Climate Management Tools

Integrated Transboundary Water Management in Theory and Practice
IWA Publishing

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China and its neighbours face a series of water security issues, in which international law plays a vital role. Paramount to both policymakers and researchers in the field of water law, the current status of transboundary water cooperation schemes and how these operate in China is of global significance. Grounded in international experience, this comprehensive volume provides readers with an up-to-date overview of current international transboundary water resource sharing policies and practices, including detailed case studies at both domestic and international levels. The authors discuss existing international laws, treaties, and principles that may stimulate transboundary water cooperation and dialogue, and then analyse a number of international experiences with treaties in North America, Eastern Europe, and Central Asia. They take stock of China's water resource issues, legal practices and options, examine case studies of China's southern shared rivers, and explore some innovative approaches to cooperative management of shared waters within China. The articles in

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this book were originally published in the journal *Water International*.

At the UN General Assembly in 1997, an overwhelming majority of States voted for the adoption of the United Nations Convention on the Law of the Non-Navigational Uses of International Watercourses – a global overarching framework governing the rights and duties of States sharing freshwater systems. Globally, there are 263 internationally shared watersheds, which drain the territories of 145 countries and represent more than forty percent of the Earth's land surface. Hence, inter-State cooperation towards the sustainable management of transboundary water supplies, in accordance with applicable international legal instruments, is a topic of crucial importance, especially in the context of the current global water crisis. This volume provides an assessment of the role and relevance of the UN Watercourses Convention and describes and evaluates its entry into force as a key component of transboundary water governance. To date, the Convention still requires

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further contracting States before it can enter into force. The authors describe the drafting and negotiation of the Convention and its relationship to other multilateral environmental agreements. A series of case studies assess the role of the Convention at various levels: regional (European Union, East Africa, West Africa, Central Asia, Central America and South America), river basin (e.g. the Mekong and Congo) and national (e.g. Ethiopia and Mexico). The book concludes by proposing how future implementation might further strengthen international cooperation in the management of water resources, to promote biodiversity conservation as well as sustainable and equitable use.

Results of the NATO CCMS Pilot Studies on Integrated Water Management: Practical Experiences and Case Studies

An Integrated Approach to River Basin Management

Principles, Practice and Prospects for China and Its Neighbours

Integrated Water Resources Management in Practice

Integrated Water Resources Management in the Mediterranean

Region

Transboundary Water Management

Promoting Transboundary Water Management and Avoiding Regional Conflict

Transboundary Water Resources Management

Closing the (widening) gap between natural water resources and water needs in the Jordan River Basin: a long-term perspective / Yacov Tsur -- Exploring benefits and scope of cooperation in transboundary water sharing in the Amu Darya Basin / Anik Bhaduri and Maksud Bekchanov -- Distributional impacts of welfare allocations from damming the Nile River / Getachew Nigatu and Ariel Dinar -- Issue linkage: a mechanism for managing conflict, applied to the Mekong Basin / Kim Hang Pham Do and Ariel Dinar -- Proposed international legal and institutional framework for conjunctive management of surface and groundwater along the US-Mexico border region / Marøa Milanés-Murcia -- A new paradigm for transboundary water agreements: the opportunity for Israel and Palestine / David B. Brooks and Julie Trottier -- Disputes over international watercourses: can river basin organizations make a difference? / Sabine Blumstein and Susanne Schmeier -- Transboundary water management along the Tagus River Basin in the Iberian Peninsula: sustainable water allocation of the Aqueduct Tagus-Segura / Marøa

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Milanés-Murcia -- Institutional settings in transboundary water management: lessons from the Fergana Valley and the Lower Jordan Basin / Christine Bismuth and Bernd Hansjürgens -- Regional cooperation in river basin rehabilitation: estimating economic benefits of alternatives for Jordan River restoration / Nir Becker and David Katz

Environmental Information in European Transboundary Water Management aims to examine the role of information in transboundary river basin and water management, and the way it is used (or not) in policy and decision and decision-making within the wider European area. While having forward-looking perspective justified by the ongoing implementation of the EU water Framework Directive among EU Member States and Candidates Countries, many of the chapters draw on the experiences gained from the past and existing transboundary river basin co-operation experiences. Chapters are organised according to a framework that shows the sharing of water resources to be based upon a foundation of integrated water resources management, supported by three pillars: Politics - concerned with the enabling of sharing water resources, including the recognition of differences in riparian interests and international collaboration. Technical cooperation - concerned with concrete co-operation including exchange of information; tools and techniques to produce, use and disseminate information; joint research programmes; joint river basin plans; and

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joint ventures i.e. jointly performed water management actions. Legal-institutional - dealing with institutions and legal instruments that support the vision of fair and equitable sharing of international water resources; this pillar finds its basis in internationally laid down principles of cross border co-operation. Environmental Information in European Transboundary Water Management will appeal to professionals involved in the various aspects of transboundary river basin co-operation, both on strategic and operational levels, but also to the academic community concerned with the study of transboundary river basin or water management. It will also be an important source for graduate students in (transboundary) river basin management. Attending water security is an important challenge and a major systemic risk humanity faces in the years to come. This is due to population increase, over-consumption of water, especially in agriculture, climate change and various forms of water pollution. The issue becomes more complicated in transboundary water catchments that cover almost half of the world's land surface, with about 60% of global river flow and 40% of the world's population. Also, in many parts of the planet, like Saharan Africa, population depends on groundwater resources located in transboundary aquifer systems. These facts illustrate the importance of the book's subject, which is the governance of transboundary waters, both surface and groundwater. The

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book is written by two distinguished scientists, who, having worked in various international institutions, like UNESCO, GEF, UNEP and at the European Commission, have both an extended expertise on how to bridge the gap between science and political decision-making, which is the main factor for an effective governance of water resources. What is new in the book is the integrated analysis of transboundary governance of both surface water and groundwater, as it occurs in reality. In current literature, groundwater is still often missing for the benefit of surface water or, on the contrary, it is treated separately from surface water. The most important feature of the book is to distinguish between the real and a "good" or an effective transboundary water governance and to provide practical tools, methodologies and examples for its implementation in the field. Published timely during 2018, the book will contribute to address successfully practical problems of governance of transboundary waters that represent a very important part of our precious fresh water resources.

This book focuses on sustainable use and protection of transboundary aquifers located along the eastern border of European Union starting from the Baltic Sea and end in the Black Sea. The groundwater resources in this region play a very important role not only as a source of clean and safe drinking water, but also for social, economic

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and safety reasons. This publication sheds light on a wide range of real problems related to the management of groundwater, problems that are characteristic for most countries situated in the East European region. It also identifies potential threats that may materialise in the absence of cooperation between countries and appropriate measures to jointly manage the shared water resources in the region. Experience from some ongoing projects towards integrated management of transboundary aquifers (research, monitoring and data analysis) is reported. The book is addressed, in particular, to groundwater academics, researchers and experts as well as water management specialists interested in solving environmental issues extended to more than one country territory. On the other hand presented knowledge and experience would be also useful for decision makers especially to support environmental decision processes in border areas and work on preparation of international agreements on groundwater management.

Transboundary Water Resources in the Balkans

Better Water Management for Development

National and International, 3rd Edition

Dialogue towards new strategy

The Handbook for Integrated Water Resources Management in

Transboundary Basins of Rivers, Lakes and Aquifers

A Procedural Framework for Transboundary Water Management in the

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Mekong River Basin

Climate Change and Land-Use Implications

In A Procedural Framework for Transboundary Water Management in the Mekong River Basin: Shared Mekong for a Common Future, Qi Gao explores procedural implications of integrated water resources management and its application in the Mekong River Basin.

The Central Asian republics and neighboring countries are currently experiencing problems related to the availability and efficient/equitable distribution of freshwater. This book contains papers from a NATO-sponsored Advanced Research Workshop that was organized to address these concerns. It addresses the myriad of issues involving shared freshwater among the countries in this region, discussing ecology, law, economics, politics, water policy and integrated water management.

The Principles for Effective Joint Bodies for Transboundary Water Cooperation, presented in this publication, distil valuable lessons from the experiences of joint bodies worldwide, Parties to the Water Convention and other States, as well as other stakeholders. These experiences were gathered through an extensive consultation process under the Water Convention. At its seventh session (Budapest, 17-19 November 2015) the Meeting of the Parties to the Water Convention formally adopted the principles and encouraged countries to use them. The principles seek to facilitate the establishment and work of joint bodies and ultimately to contribute to reaching a high level of cooperation between riparian States. The principles are highly relevant in the light of the opening of the Water Convention to all United Nations Member States and can assist

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countries in implementing one of its main obligations.

One of the major problems facing practitioners and scientists working with water management is how to integrate knowledge and experiences from scientific, policy and stakeholder perspectives. In this book this science-policy-stakeholder interface (SPSI) is examined both analytically and through the description of practical experiences from river basins in Europe, India and South-East Asia. These include the Tungabhadra (India), Sesan (Vietnam/Cambodia), Tagus (Spain/Portugal) and Glomma (Norway), which particularly highlight issues associated with pollution, severely altered river flows and transboundary conflicts. Following two chapters which lay the framework for the book the authors describe how SPSI was managed in the case study basins and how stakeholder participation and scenarios were used to integrate different perspectives, and to facilitate the communication of different forms of knowledge. Four important aspects of water management and SPSI are then discussed; these are water pollution, land and water interaction, environmental flow and transboundary water regimes. Short descriptions of the case study rivers are provided together with analyses of how SPSI was managed in water management in these basins and policy recommendations for the basins. The book concludes by providing a series of recommendations for improving the science-policy-stakeholder interface in water management. It represents a major step forward in our understanding of how to implement integrated water resources management.

A Review of Transboundary River Basins

Regional Cooperation for Effective Management of Water Resources

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Integrated Water Resources Management and Security in the Middle East
Transboundary Water Management in a Changing Climate
Achievements and Challenges of Integrated River Basin Management
Groundwater Management in the East of the European Union
The Economics of Water