

# War Over Water Conflict Over Trans Boundary Waters

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### **Water, Peace, and War**

Is there enough water on this planet for a global population that will shortly double its present size? The answer is of huge importance for people everywhere, but particularly to the peoples and political leaders of the Middle East and North Africa. Already, the region's economies are as dependant on water from outside the region as they are on the renewable waters of the region. They will be much more dependant in the future. Professor Allan's important new book aims to remove much of the confusion surrounding the issue of water in the Middle East. As well as explaining the particular issues of conflict in the region, he argues that the answer to these problems lies at the global rather than local level. The national water policies of the region (political as well as economic) can only be properly understood at an international level. And it is from this vantage point that solutions - from rendering water globally available to addressing the environmental issues to do with its use - must be found. *The Middle East Water Question* is a major book by one of the world's leading authorities on water issues - the product of a decade of involvement with officials, professionals, Middle East and North African governments and international agencies such as the World Bank and FAO.

### **Urban Water Conflicts**

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The end of the Cold War has opened up the arena for increased attention to other lines of conflict, both in Europe and globally. Environmental disruption - by no means a new phenomenon - is a chief beneficiary of the shift in priorities in the public debate. The Scientific and Environmental Affairs Division of NATO has moved with the times and has defined environmental security as one of the priority areas for its cooperation with Central and Eastern Europe and countries of the former Soviet Union. Research on these issues is now thus very much a collaborative effort across former lines of division in Europe. The Introduction by Sverre Stub sets the tone: Our Future - Common, or None at All. The book reveals the very real risks associated with environmental degradation, whether of the land, waters or the oceans, and charts out previous disputes and points to the very real danger of violent conflict associated with the drying up of natural resources. The book ends with a section on Responses, which seeks to provide answers to the threats discussed in the preceding sections.

### **International Conflict over Water Resources in Himalayan Asia**

#### **Water**

## **Middle East Water Conflicts and Directions for Conflict Resolution**

Water is a basic human need, and despite predictions of "water wars," shared waters have proven to be the natural resource with the greatest potential for interstate cooperation and local confidence building. Indeed, water management plays a singularly important role in rebuilding trust after conflict and in preventing a return to conflict. Featuring nineteen case studies and analyses of experiences from twenty eight countries and territories in Africa, Asia, Europe, the Americas, and the Middle East, and drawing on the experiences of thirty-five researchers and practitioners from around the world, this book creates a framework for understanding how decisions governing water resources in post-conflict settings can facilitate or undermine peacebuilding. The lessons will be of value to practitioners in international development and humanitarian initiatives, policy makers, students, and others interested in post-conflict peacebuilding and the nexus between water management and conflict. Water and Post-Conflict Peacebuilding is part of a global initiative to identify and analyze lessons in post-conflict peacebuilding and natural resource management. The project has generated six edited books of case studies and analyses, with contributions from practitioners, policy makers, and researchers. Other books in this series address high-value resources, land, livelihoods, assessing and restoring natural resources,

and governance.

### **Water, Security and U.S. Foreign Policy**

In a never-ending battle to match population growth with food and energy production, the countries of the Middle East have been frenziedly developing water resources without considering their neighbors' needs. The inevitable result has been more frequent and increasingly bitter conflicts. At the same time, a halting Arab-Israeli peace process continues. Are we indeed entering a new era in a new Middle East? Focusing on international rivers and ground water, this timely study provides thoughtful-if pessimistic-answers to this question. Examining each water source in the Middle East, Soffer also weighs the implications of going to war over water and such unconventional solutions to the water shortage as desalination and importation.

### **Conflict and the Environment**

Now in an updated edition, this pioneering and authoritative study considers the profound impact of the growing global water crunch on international peace and security as well as possible ways to mitigate the crisis. Although water is essential to sustaining life and livelihoods, geostrategist Brahma Chellaney argues that it

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remains the world's most underappreciated and undervalued resource. One sobering fact is that the retail price of bottled water is already higher than the international spot price of crude oil. But unlike oil, water has no substitute, raising the specter of water becoming the next flashpoint for conflict. Water war as a concept may not mesh with the conventional construct of warfare, especially for those who plan with tanks, combat planes, and attack submarines as weapons. Yet armies don't necessarily have to march to battle to seize or defend water resources. Water wars—in a political, diplomatic, or economic sense—are already being waged between riparian neighbors in many parts of the world, fueling cycles of bitter recrimination, exacerbating water challenges, and fostering mistrust that impedes broader regional cooperation and integration. The danger is that these water wars could escalate to armed conflict or further limit already stretched food and energy production. Writing in a direct, nontechnical, and engaging style, Brahma Chellaney draws on a wide range of research from scientific and policy fields to examine the different global linkages between water and peace. Offering a holistic picture and integrated solutions, his book has become the recognized authority on the most precious natural resource of this century and how we can secure humankind's water future.

### **Never-Ending Conflict**

Acclaimed author and award-winning scientist and activist Vandana Shiva lucidly

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details the severity of the global water shortage, calling the water crisis “the most pervasive, most severe, and most invisible dimension of the ecological devastation of the earth.” She sheds light on the activists who are fighting corporate maneuvers to convert the life-sustaining resource of water into more gold for the elites and uses her knowledge of science and society to outline the emergence of corporate culture and the historical erosion of communal water rights. Using the international water trade and industrial activities such as damming, mining, and aquafarming as her lens, Shiva exposes the destruction of the earth and the disenfranchisement of the world's poor as they are stripped of rights to a precious common good. Revealing how many of the most important conflicts of our time, most often camouflaged as ethnic wars or religious wars, are in fact conflicts over scarce but vital natural resources, she calls for a movement to preserve water access for all and offers a blueprint for global resistance based on examples of successful campaigns. Featuring a new introduction by the author, this edition of *Water Wars* celebrates the spiritual and traditional role water has played in communities throughout history and warns that water privatization threatens cultures and livelihoods worldwide.

### **Water**

This concise yet incisive text is an excellent choice for courses in the Criminal Justice curriculum, including Corrections, Introduction to Criminal Justice, and other

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social problems-oriented courses.

### **Water Wars**

As one of the most volatile, heavily-armed and strategically-significant regions on earth, the Middle East constantly engages the attention of world powers, whose foreign policies are often driven by a desire for guaranteed access to oil and for overall stability in the area. This book contends, however, that it is conflicts over the control of water, not oil, which are likely to threaten stability.

### **Water and Post-Conflict Peacebuilding**

Acclaimed New York Times journalist and author Chris Hedges offers a critical -- and fascinating -- lesson in the dangerous realities of our age: a stark look at the effects of war on combatants. Utterly lacking in rhetoric or dogma, this manual relies instead on bare fact, frank description, and a spare question-and-answer format. Hedges allows U.S. military documentation of the brutalizing physical and psychological consequences of combat to speak for itself. Hedges poses dozens of questions that young soldiers might ask about combat, and then answers them by quoting from medical and psychological studies. • What are my chances of being wounded or killed if we go to war? • What does it feel like to get shot? • What do

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artillery shells do to you? • What is the most painful way to get wounded? • Will I be afraid? • What could happen to me in a nuclear attack? • What does it feel like to kill someone? • Can I withstand torture? • What are the long-term consequences of combat stress? • What will happen to my body after I die? This profound and devastating portrayal of the horrors to which we subject our armed forces stands as a ringing indictment of the glorification of war and the concealment of its barbarity.

### **Water Security in India**

The prosperity and national security of the United States depend directly on the prosperity and stability of both partner and competing countries around the world. Today, U.S. interests are under rising pressure from water scarcity, extreme weather events and water-driven ecological change in key geographies of strategic interest to the U.S. Those water-driven stresses are undermining economic productivity, weakening governance systems and fraying social cohesion in scores of countries and, in the process, undermining the vitality of rural livelihoods, fostering local and ethnic conflicts, driving broad migratory movements and contributing to the growth of insurgencies and terrorist networks. While the U.S. intelligence community has steadily expanded natural resource concerns in their global threat analyses, our overseas development assistance remains locked into provision of water and hygienic services rather than responding to the full sweep of

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global water challenges including governance and policy failures, growing conflicts over water and the need for promoting sustainable transboundary water arrangements in partner countries. A fundamental departure from the past is urgently needed. Based on 18 case studies, *Water, Security and U.S. Foreign Policy* provides an analytical framework to help policy makers, scholars and researchers studying the intersection of U.S. foreign policy with the environment and sustainability issues, interpret the impacts of water-driven social disruptions on the stability of partner governments and U.S. interests abroad. The book also delivers specific recommendations to reorient U.S. development and diplomatic engagements that can forestall and prevent social disruptions and ensuing threats to U.S. prosperity and national security.

### **The Plague Makers**

Bustle's "17 Best Nonfiction Books Coming Out In September 2018" "With *This is the Way the World Ends* Jeff Nesbit has delivered an enlightening - and alarming - explanation of the climate challenge as it exists today. Climate change is no far-off threat. It's impacting communities all over the world at this very moment, and we ignore the scientific reality at our own peril. The good news? As Nesbit underscores, disaster is not preordained. The global community can meet this moment — and we must." —Senator John Kerry A unique view of climate change glimpsed through the world's resources that are disappearing. The world itself

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won't end, of course. Only ours will: our livelihoods, our homes, our cultures. And we're squarely at the tipping point. Longer droughts in the Middle East. Growing desertification in China and Africa. The monsoon season shrinking in India. Amped-up heat waves in Australia. More intense hurricanes reaching America. Water wars in the Horn of Africa. Rebellions, refugees and starving children across the globe. These are not disconnected events. These are the pieces of a larger puzzle that environmental expert Jeff Nesbit puts together Unless we start addressing the causes of climate change and stop simply navigating its effects, we will be facing a series of unstoppable catastrophes by the time our preschoolers graduate from college. Our world is in trouble – right now. This Is the Way the World Ends tells the real stories of the substantial impacts to Earth's systems unfolding across each continent. The bad news? Within two decades or so, our carbon budget will reach a point of no return. But there's good news. Like every significant challenge we've faced—from creating civilization in the shadow of the last ice age to the Industrial Revolution—we can get out of this box canyon by understanding the realities and changing the worn-out climate conversation to one that's relevant to every person. Nesbit provides a clear blueprint for real-time, workable solutions we can tackle together.

### **Water Conflicts in India**

### **Bridges Over Water**

Water conflicts in India have now percolated to every level. They are aggravated by the relative paucity of frameworks, policies and mechanisms to govern the use of water resources. Based on the premise that understanding and documenting different types of water conflict cases in all their complexity would contribute to informed public debate and facilitate their resolution, Forum for Policy Dialogue on Water Conflicts in India, a collaborative initiative of the WWF project 'Dialogue on Water, Food and Environment', documented a number of such case studies. One of its kind in India, this book brings together an impressive sixty-three case studies – summarized status of the conflicts, the issues involved and their current position – and gives us a glimpse into 'the million revolts' that are brewing around water. While recognizing that each conflict is a microcosm of wider conflicts, the editors have classified these cases into eight broad themes that try to capture the dominant aspect of the conflict. These are: contending water uses; dams and displacement; equity-access-allocations; micro-level conflicts; water quality; trans-boundary conflicts; privatization; sand excavation and mining. With a mix of academics and activists as contributors, the book makes an important contribution to a new discourse on water in general, and water conflicts and conflict resolution in particular.

### **Water and Conflict**

The quality and availability of fresh water are of critical importance to human and ecosystem health. Given its central role in the functioning of all living systems, water is arguably the most important of all natural resources. Produced biennially, *The World's Water* provides a comprehensive examination of issues surrounding freshwater resources and their use. It offers analysis of the most significant trends worldwide along with the most current data available on a variety of water-related topics. This 2000-2001 edition features overview chapters on: water as a human right water and food desalination stocks and flows of fresh water international watersheds and water-related conflicts water reclamation/recycling the removal of dams It also includes brief reports on issues such as arsenic in ground water in Bangladesh, the collection of fog as a source of water in remote regions, the role of nongovernmental organizations in meeting basic water needs, and an update on water and the internet. Following the overview chapters are more than thirty charts and tables that offer data on topics including: water use by country, agricultural water use, salinization, endangered aquatic species, major rivers in China, dam capacity, desalination capacity, and more. *The World's Water* is the most comprehensive and up-to-date source of information and analysis on freshwater resources and the political, economic, scientific, and technological issues associated with them. It is an essential reference for water resource professionals in government agencies and nongovernmental organizations,

researchers, students, and anyone concerned with water and its use.

### **The Middle East Water Question**

The threat of water scarcity touches human populations and ecosystems worldwide. This work overviews the various legal responses to conflicts involving water as a resource. It addresses the continuous development of water law in the face of new water shortage scares. The distinguished team of contributors analyses the nature of the problem, international water law, legal and policy responses to water scarcity in selected regions, and the emergence of a new body of economic water law. Contributing experts in the field of water law and policy reveal the diverse and dynamic development of water law and the interaction between the legal and policy responses at the international, regional, and national levels. A result of the conference 'Scarcity of Water, International, European and National Legal Aspects' held at the Faculty of Law of the Erasmus University, Rotterdam in October 1995, this book also contains a selection of papers presented at the conference.

### **Water and Conflict: Incorporating Peacebuilding Into Water Development**

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Bridges over Water places the study of transboundary water conflicts, negotiation, and cooperation in the context of various disciplines, such as international relations, international law, international negotiations, and economics. It demonstrates their application, using various quantitative approaches, such as river basin modeling, quantitative negotiation theory, and game theory. Case-studies of particular transboundary river basins, lakes, and aquifers are also considered. This second edition updates the literature on international water and in-depth analyses on political developments and cooperation between riparian states. With an appended chapter on principles and practices of negotiation, and a new case study on the La Plata Basin, this edition is a timely update to the field of transboundary water studies.

### **Water security and the sustainable development goals**

The authors explore the fresh water crisis of Himalayan Asia. While the region hosts some of the world's mightiest rivers, it is also home to rapidly modernizing, increasingly affluent, and demographically multiplying societies, ensuring the rapid depletion of water resources and of disputes over ownership of transboundary waters.

### **Environmental Change, Adaptation, and Security**

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This volume describes various scenarios of conflict and cooperation over water resources among stakeholders in a variety of settings. It discusses treaty making over international rivers, bilateral cooperation on river development between South Africa and Lesotho, the political economy of water supply in the Pacific Island region, the establishment of the Mekong River Commission in Southeast Asia, comparative river basin management in the United States and South Korea, and the International Joint Commission formed by Canada and the United States to resolve boundary water conflicts. The book also explores national domestic conflicts over water resources in Bangladesh and China, Cold War hydropolitics in Southern Africa, water management conflicts in the Niger River Basin of West Africa, and water as commodity and source of conflict in Australia.

### **This Is the Way the World Ends**

### **Case Studies in Environmental Science**

Urban water conflicts manifested first in Europe in the 19th century and are observed nowadays in various forms throughout the world; in particular, in developing countries. Main causes of these conflicts are characterized by complex socioeconomic and institutional issues related to urban water management. The

debate about public water services ver

### **Bridges Over Water**

This volume explores the role of water in the Middle East's current economic, political and environmental transformations, which are set to continue in the near future. In addition to examining water conflict from within the domestic contexts of Iraq, Yemen and Syria-- all experiencing high levels of instability today--the contributors shed further light on how conflict over water resources has influenced political relations in the region. They interrogate how competition over water resources may precipitate or affect war in the Middle East, and assess whether or how resource vulnerability impacts fragile states and societies in the region and beyond. *Water and Conflict in the Middle East* is an essential contribution to our understanding of turbulence in this globally significant region.

### **Power and Water in the Middle East**

Describes the effect that Asia's exploding population will have on the supply of freshwater, discusses how the scarcity of this resource will give rise to territorial disputes and security implications and proposes strategies to avoid conflict and create equitable sharing.

### **The World's Water 2000-2001**

In the drought summer of 2001, a simmering conflict between agricultural and environmental interests in southern Oregon's Upper Klamath Basin turned into a guerrilla war of protests, vandalism, and apocalyptic rhetoric when the federal Bureau of Reclamation shut down the headgates of the Klamath Project to conserve water needed by endangered species. This was the first time in U.S. history that the headgates of a federal irrigation project were closed—and irrigators denied the use of their state water rights—in favor of conservation. Farmers mounted a brief rebellion to keep the water flowing, but ultimately conceded defeat. In *Water War in the Klamath Basin*, legal scholars Holly Doremus and A. Dan Tarlock examine the genesis of the crisis and its fallout, offering a comprehensive review of the event, the history leading up to it, and the lessons it holds for anyone seeking to understand conflicts over water use in the arid West. The authors focus primarily on the legal institutions that contributed to the conflict—what they call “the accretion of unintegrated resource management and environmental laws” that make environmental protection so challenging, especially in politically divided regions with a long-standing history of entitlement-based resource allocation. *Water War in the Klamath Basin* explores common elements fundamental to natural resource conflicts that must be overcome if conflicts are to be resolved. It is a fascinating look at a topic of importance for anyone concerned with the management, use, and conservation of increasingly limited natural

resources.

### **Managing and Transforming Water Conflicts**

The papers collected here range from descriptions of environmental and health issues in Russia and Eastern Europe to models of sustainable land use. This diversity of perspectives on the environment and security is indicative of both the breadth of this new area of research as well as of the varied background of the researchers involved. The volume reflects the vitality of the topic.

### **American War**

“[Brown’s] ability to make a complicated subject accessible to the general reader is remarkable.”—Katherine Salant, Washington Post As fossil fuel prices rise, oil insecurity deepens, and concerns about climate change cast a shadow over the future of coal, a new energy economy is emerging. Wind, solar, and geothermal energy are replacing oil, coal, and natural gas, at a pace and on a scale we could not have imagined even a year ago. For the first time since the Industrial Revolution, we have begun investing in energy sources that can last forever. Plan B 4.0 explores both the nature of this transition to a new energy economy and how it will affect our daily lives.

### **Water, Peace, and War**

What is the one thing that no one can do without? Water. Where water crosses boundaries – be they economic, legal, political or cultural – the stage is set for disputes between different users trying to safeguard access to a vital resource, while protecting the natural environment. Without strategies to anticipate, address, and mediate between competing users, intractable water conflicts are likely to become more frequent, more intense, and more disruptive around the world. In this book, Delli Priscoli and Wolf investigate the dynamics of water conflict and conflict resolution, from the local to the international. They explore the inexorable links between three facets of conflict management and transformation: Alternative Dispute Resolution (ADR), public participation, and institutional capacity. This practical guide will be invaluable to water management professionals, as well as to researchers and students in engineering, economics, geography, geology, and political science who are involved in any aspects of water management.

### **Rivers of Fire**

The papers collected here range from descriptions of environmental and health issues in Russia and Eastern Europe to models of sustainable land use. This

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diversity of perspectives on the environment and security is indicative of both the breadth of this new area of research as well as of the varied background of the researchers involved. The volume reflects the vitality of the topic.

### **The Scarcity of Water, Emerging Legal and Policy Responses**

Far more than oil, the control of water wealth throughout history has been pivotal to the rise and fall of great powers, the achievements of civilization, the transformations of society's vital habitats, and the quality of ordinary daily lives. Today, freshwater scarcity is one of the twenty-first century's decisive, looming challenges, driving new political, economic, and environmental realities across the globe. In *Water*, Steven Solomon offers the first-ever narrative portrait of the power struggles, personalities, and breakthroughs that have shaped humanity from antiquity's earliest civilizations through the steam-powered Industrial Revolution and America's century. Meticulously researched and masterfully written, *Water* is a groundbreaking account of man's most critical resource in shaping human destinies, from ancient times to our dawning age of water scarcity.

### **Water and Power**

“Powerful . . . As haunting a postapocalyptic universe as Cormac McCarthy

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[created] in *The Road*, and as devastating a look as the fallout that national events have on an American family as Philip Roth did in *The Plot Against America*. . . . Omar El Akkad's debut novel, *American War*, is an unlikely mash-up of unsparing war reporting and plot elements familiar to readers of the recent young-adult dystopian series *The Hunger Games* and *Divergent*." —Michiko Kakutani, *The New York Times* An audacious and powerful debut novel: a second American Civil War, a devastating plague, and one family caught deep in the middle—a story that asks what might happen if America were to turn its most devastating policies and deadly weapons upon itself. Sarat Chestnut, born in Louisiana, is only six when the Second American Civil War breaks out in 2074. But even she knows that oil is outlawed, that Louisiana is half underwater, and that unmanned drones fill the sky. When her father is killed and her family is forced into Camp Patience for displaced persons, she begins to grow up shaped by her particular time and place. But not everyone at Camp Patience is who they claim to be. Eventually Sarat is befriended by a mysterious functionary, under whose influence she is turned into a deadly instrument of war. The decisions that she makes will have tremendous consequences not just for Sarat but for her family and her country, rippling through generations of strangers and kin alike.

### **Plan B 4.0: Mobilizing to Save Civilization (Substantially Revised)**

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The former Egyptian Minister of State for Foreign Affairs and former UN Secretary General, Boutros Boutros Ghali stated after the second Gulf War "The next war in the Middle East will not be fought for oil, but for water." This famous statement has been echoed by many politicians: shortly before becoming president of Turkey, Süleyman Demirel declared that the waters of the Euphrates and Tigris belonged to Turkey, just as oil belongs to the Arabs. Rafael Eytan, at that time and now again Israeli Minister of Agriculture, declared in 1990 in full-page advertisements in the Jerusalem Post that Israel would never cede the West Bank to the Palestinians because Israel's water supply would otherwise be endangered. Finally, Ismail Serageldin, vice president of the World Bank, declared in 1995 that "the wars of the next century will be over water". These statements are typical of the atmosphere reigning in the Middle East and in several other places around the world concerning the issue of international fresh water resources. Whether these perceptions correspond to an actual threat to a nation's water supply or whether they correspond to the official position of states in negotiations often conducted secretly, is an entirely different matter. A closer analysis of the issue of international fresh water resources, as we attempt in this book, admittedly reveals a dangerous potential for conflict over water.

### **Water in the Middle East**

### **Water and Conflict in the Middle East**

For over a century the Great Lakes have been the target of controversial diversion schemes to sell, send, or ship water to thirsty communities, sometimes far from the source. In 2008, eight US states signed the historic Great Lakes Compact designed to protect the region's precious freshwater resources. Now water diversion controversies of a different kind are pitting communities and states against one another. Will the water wars ever be settled? With three new chapters and significant revisions that bring the story up to date over the past decade, this is the definitive behind-the-scenes account of the people and stories behind hard-fought battles to protect this precious resource that makes the region so special for the millions who call it home.

### **Water**

Latest Edition: Bridges Over Water: Understanding Transboundary Water Conflict, Negotiation and Cooperation (2nd Edition) Bridges over Water places the study of transboundary water conflicts, negotiation, and cooperation in the context of various disciplines (such as international relations, international law, international negotiations, and economics), analyzing them using various quantitative approaches, such as river basin modeling and game theory. Case studies of

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particular transboundary river basins, lakes and aquifers are also considered. This is the first textbook for a relatively recent yet rapidly expanding field of study.

Errata(s) Errata

### **The Great Lakes Water Wars**

Water is a simple but necessary part of life. Yet much of the world's population lacks adequate clean water, either because of physical scarcity or because they are denied equitable access to water resources. Such conditions inevitably breed conflict. Water-related violence is common in many parts of the world and is generally expected to increase in the years ahead. This document is intended to assist water development practitioners, civil society peacebuilders and human rights advocates seeking to integrate water and peacebuilding in their work. The purpose is twofold: to furnish a conceptual framework for understanding problems of scarcity and equity, and to provide practical guidance and tools for action. The text distills an extensive literature on water, conflict, and cooperation produced in recent years by researchers and development practitioners. Case studies and reflections are included to keep theory grounded in reality.

### **Water War in the Klamath Basin**

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Few people actively engaged in India's water sector would deny that the Indian subcontinent faces serious problems in the sustainable use and management of water resources. Water resources in India have been subjected to tremendous pressures from increasing population, urbanization, industrialization, and modern agricultural methods. The inadequate access to clean drinking water, increase in water related disasters such as floods and droughts, vulnerability to climate change and competition for the resource amongst different sectors and the region poses immense pressures for sustainability of water systems and humanity. Water Security in India addresses these issues head on, analyzing the challenges that contemporary India faces if it is to create a water-secure world, and providing a hopeful, though guarded, road-map to a future in which India's life-giving and life-sustaining fresh water resources are safe, clean, plentiful, and available to all, secured for the people in a peaceful and ecologically sustainable manner.

### **What Every Person Should Know About War**

Twelve Israeli historians and writers reflect on the history of tensions and conflicts between the indigenous Arab population of Palestine and Jews who have sought to create an independent state on land they consider their ancient homeland.

### **Water Wars**

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It is not the purpose of this work to propose a specific format for the settlement of the city's current difficulties with the valley, to resolve the environmental questions associated with Los Angeles's proposed groundwater pumping program, or to promote any cause associated with the developing situation in the Owens Valley. But by performing the essential historical task of separating what happened from what did not, and by distinguishing in this way the choices which have been made from those which have yet to be decided, it is my hope that this effort will help to establish that common basis for understanding which is essential for the debate over specific issues to proceed most effectively. This book, then, is scarcely the last word on the Owens Valley conflict: the final chapter, after all, has yet to be written. The story that has emerged here is at once very different and more troubling than the conventional treatments of the conflict as a simplistic political morality play. Any attempt to deal with so controversial a subject, however, is almost certain to spark controversy itself. For that reason, with the exception of a small collection of private letters, this work is constructed entirely from the published documents and other materials available to the general public, anchoring the narrative in sources the reader can consult to trace the line of my argument on any point with which he or she may disagree. In addition, the work as a whole has been reviewed for technical accuracy by officials of the Los Angeles Department of Water and Power, although the department is in no way responsible for the content of this study or the conclusions drawn from it.

## **Environmental Change, Adaptation, and Security**

Now in an updated edition, this pioneering and authoritative study considers the profound impact of the growing global water crunch on international peace and security as well as possible ways to mitigate the crisis. Although water is essential to sustaining life and livelihoods, geostrategist Brahma Chellaney argues that it remains the world's most underappreciated and undervalued resource. One sobering fact is that the retail price of bottled water is already higher than the international spot price of crude oil. But unlike oil, water has no substitute, raising the specter of water becoming the next flashpoint for conflict. Water war as a concept may not mesh with the conventional construct of warfare, especially for those who plan with tanks, combat planes, and attack submarines as weapons. Yet armies don't necessarily have to march to battle to seize or defend water resources. Water wars—in a political, diplomatic, or economic sense—are already being waged between riparian neighbors in many parts of the world, fueling cycles of bitter recrimination, exacerbating water challenges, and fostering mistrust that impedes broader regional cooperation and integration. The danger is that these water wars could escalate to armed conflict or further limit already stretched food and energy production. Writing in a direct, nontechnical, and engaging style, Brahma Chellaney draws on a wide range of research from scientific and policy fields to examine the different global linkages between water and peace. Offering a holistic picture and integrated solutions, his book has become the recognized

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authority on the most precious natural resource of this century and how we can secure humankind's water future.

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