

Water and Sanitation Related Diseases and the Environment: Challenges, Interventions and Preventive Measures

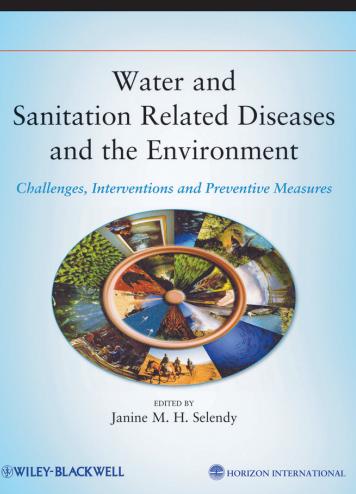
Janine M.H. Selendy, in collaboration with Horizon International

“...once we can secure access to clean water and to adequate sanitation facilities for all people, irrespective of the difference in their living conditions, a huge battle against all kinds of diseases will be won.”

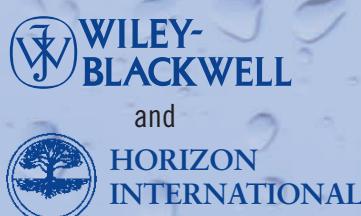
— Dr Lee Jong-wook, Former Director-General, World Health Organization

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Written by authorities from the fields of public health, medicine, epidemiology, environmental health, climate change, environmental engineering, and population research, this book presents an interdisciplinary picture of the conditions responsible for water and sanitation-related diseases. It examines the pathogens and their biology, morbidity and mortality resulting from lack of safe water and sanitation, distribution of these diseases, and the conditions that must be met to reduce or eradicate them. The publication covers access to and the maintenance of clean water, and includes guidelines for the safe use of wastewater, excreta and greywater along with examples of solutions; this is presented with an emphasis on what is actually achievable in the real world, considering that, currently 2.6 billion individuals have no toilet and 1.2 billion people are exposed to water-related illness from their drinking water. Meeting water and sanitation needs, coupled with protection of the environment and prevention of pollutants, is essential to every effort to improve the health and living conditions of billions of people. Meeting these needs is fundamental, not only to effectively diminish incidence of diseases that afflict a third or more of the people of the world, but also to improve education and economic well-being and elevate billions of individuals out of vicious cycles of poverty. The preventive measures and solutions presented in this book provide guidance for possible action on the local, national and international levels.



A collaboration between



The print copy of the book is accompanied by a multimedia DVD with figures from each of the chapters, supplemental images, and videos. Available now from www.wiley.com

Special websites established by Wiley-Blackwell and by the Horizon Solutions Site at www.solutions-site.org present the electronic version of the book, the DVD and other supplementary material

JANINE SELENDY is Founder, Chairman and President of Horizon International, a non-profit organization based at Yale University which addresses health, environmental and poverty issues. She also serves as principal editor and publisher of the Horizon Solutions Site, www.solutions-site.org, a collaborative program with UNDP, UNEP, UNFPA, Unicef, the IDRC, Yale and Horizon's colleagues at Harvard. She is executive producer of more than 20 international television documentaries, many of which have won awards and been broadcast around the world. This publication originated from a syllabus on water and sanitation she prepared at the invitation of Yale School of Public Health which was the basis of subsequent lectures she gave at both Yale and at the Columbia Mailman School of Public Health. She is a generalist whose early medical work included a discovery while doing cancer research and co-authoring a paper for the Journal of Diabetes. Her background in medical, scientific, environmental and other areas provides her with an appreciation of the interconnectedness of many subjects. Visit <http://www.solutions-site.org> for more information.

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