



March 2016

This is a monthly newsletter highlighting services and subject-specific resources provided by the [PNNL Technical Library](#). It is best viewed in HTML format in your email client.

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[Tip: ExPub is now called ToxPlanet](#)

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Thank you,

Pat Stauffer, Research Librarian, Associate Senior  
Justin Day, Research Librarian, Associate Senior  
Laura Connolly, Research Librarian

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Contact: [Technical Library Information Desk](#), 375-3268

## New eBooks

### [Advances in Membrane Technologies for Water Treatment - Materials, Processes and Applications](#), 2015

This book provides a detailed overview of advanced water treatment methods involving membranes, which are increasingly seen as effective replacements for a range of conventional water treatment methods. The text begins with reviews of novel membrane materials and advances in membrane operations, and then examines the processes involved with improving membrane performance.

### [Earthquakes, Tsunamis and Nuclear Risks: Prediction and Assessment Beyond the Fukushima Accident](#), 2016

This book covers seismic probabilistic risk assessment (S-PRA) and related studies which have become more important to increase the safety of nuclear facilities against earthquakes and tsunamis in the face of the many uncertainties after the Fukushima accident.

### [Eco-efficient Materials for Mitigating Building Cooling Needs](#), 2015

This book contains an overview of materials to lessen the impact of urban heat islands, excellent coverage of building materials to reduce air conditioning needs, and innovative products are discussed, such as Thermo and Electrochromic materials.

### [High-Temperature Solid Oxide Fuel Cells for the 21st Century - Fundamentals, Design and Applications](#), 2016

This book explores the growing interest in fuel cells as a sustainable source of energy. The text brings the topic of green energy front and center, illustrating the need for new books that provide comprehensive and practical information on specific types of fuel cells and their applications.

### [International Conference on Energy Economics and Environment \(ICEEE\)](#), 2015

This conference focuses on the key aspects of Economics and Environment associated with all conventional and non-conventional methods for power generation, transmission and distribution.

### [International Energy Markets - Understanding Pricing, Policies, and Profits \(2nd Edition\)](#), 2015

The 2nd Edition uses updated examples, statistics and models to explore energy policy, economics, institutions, and production in a global context.

[Multiphysics Modeling Using COMSOL®5 and MATLAB®, 2016](#)

COMSOL 5 and MATLAB are valuable software modeling tools for engineers and scientists. This book explores a wide range of models in coordinate systems from 0D to 3D and introduces the numerical analysis techniques employed in COMSOL 5 (including Application Builder) and MATLAB software.

[Pore Scale Phenomena - Frontiers in Energy and Environment, 2015](#)

This book provides a comprehensive overview of the interrelationship between engineering and science. The field of pore scale phenomena is now emerging as one of the frontiers of science and many engineering disciplines. Transport phenomena in the subsurface of the earth play key roles in the energy and environmental domains.

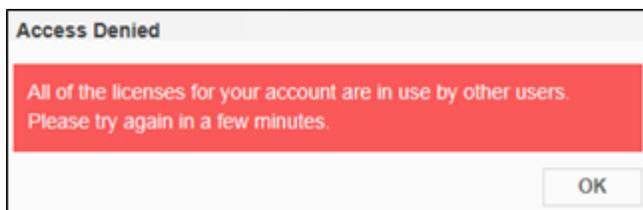
[Society - Water – Technology: A Critical Appraisal of Major Water Engineering Projects, 2016](#)

This book offers a comprehensive and interdisciplinary approach to the evaluation of major water engineering projects. Social and environmental aspects are taken in full consideration for the evaluation of technical projects.

[Solar Energy Storage, 2015](#)

This book aims to become the authoritative work on the topic, incorporating contributions from an internationally recognized group of top authors from both industry and academia, focused on providing information from underlying scientific fundamentals to practical applications, and emphasizing the latest technological developments driving this discipline forward.

[Note: For eBooks from Knovel, the PNNL Technical Library purchases only one user seat. If you see this message, please try accessing the title later:](#)



## From the Internet

**From the World Meteorological Organization (WMO):**

## [WMO Statement on the Status of the Global Climate in 2015 \(WMO-No. 1167\)](#)

### From NOAA:

All regions and economic sectors in the United States depend on adequate and reliable water supplies. Too much or too little water can endanger the health and welfare of citizens and businesses. Driven by feedback from water resource managers, federal agencies and others, NOAA and partners have developed the [Water Resources Dashboard](#): a one-stop website for relevant water data on drought, flooding, precipitation, climate and other measures.

### Tip: ExPub is now called ToxPlanet

[ToxPlanet](#) contains millions of chemical information documents covering over 410,000 unique substances, and is available courtesy of the Technical Library. In addition to CHRIS, IRIS, and RTECS, it includes hard-to-find content from the EPA, the National Toxicology Program, the Agency for Toxic Substances and Disease Registry, the CPS&Q (formerly the European Chemical Bureau), the US DoD, and many others including content from around the world. New! Take advantage of complimentary access to PoisonEXPERT, your gateway to TOXINZ, a database that offers recommendations on the management of chronic and acute exposures to hazardous substances. If relevant to your search, PoisonEXPERT will appear as an active tab on your search page and provide access to TOXINZ content. Questions? Contact: Technical Library Information Desk, [pnl.techlib@pnnl.gov](mailto:pnl.techlib@pnnl.gov), 375-3268

The screenshot shows the ToxPlanet website search interface. At the top left is the ToxPlanet logo with the tagline "New name. New look. Same great service." Below the logo is a navigation menu with links for HOME, SEARCH, DOCUMENTS, PRODUCTS, LEGAL, OPTIONS, ABOUT, and HELP. The main content area is titled "Welcome to the ToxPlanet System" and features a search form with a "Search Term" input field and "Submit" and "Clear" buttons. Below the search form are radio buttons for search criteria: "Starts With" (selected), "Exact Match", and "Contains". To the right of the search form is a list of search modes: "EXPERTIndex™ Search", "Full Text Search", "MSDSonline® Advanced", "TOXLINE® Special Advanced", "REACH Registrations Advanced", and "ListEXPERT - List View".

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