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The American
Water Works
Association
Research
Foundation
(AWWARF) and 22
municipalities,
water utilities,
water purveyors,

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water districts and water providers funded this study. Goals of this research included: Providing specific data on the end uses of water in residential settings across the continent; Assembling data on disaggregated

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indoor and outdoor uses; Identifying variations in water used for each fixture or appliance according to a variety of factors; and Developing predictive models forecast residential water demand. This report represents a time and place

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snapshot of how water is used in single-family homes in twelve North American locations. Similarities and differences among 'end users' were tabulated for each location, analyzed and summarized. Great care was taken to create a

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statistically significant representative sample of customer for each of the twelve locations. However, these twelve locations are not statistically representative of all North American locations.

Residential

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Exposure

Assessment: A

Source Book is the
result of a multiyear
effort known as the
Residential

Exposure

Assessment Project
(REAP) which was
initiated by the
Society for Risk
Analysis and the
International

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Society of Exposure Analysis. This textbook is the primary product of the REAP and it contains contributions from over 30 professionals from a variety of disciplines such as chemistry, biology, physics, engi

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neering, industrial hygiene, toxicology, pharmacology, and environmental law, reflecting the diverse knowledge and resources necessary to assess and manage potential exposures occurring in and around the home.

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Expert working groups were organized for each of the 13 chapters to address such issues as U. S. legislation relevant to products used in and around the residence, methods for measuring and modeling exposures across

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multiple pathways and routes, and distributional data available for key residential exposure factors. This volume is a compendium of information about predictive methods and tools, monitoring methods, data

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sources, and key variables that characterize exposures in the residential setting. It presents approaches for doing exposure assessments in and around all types of residences. The purpose of the Source Book is to

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provide a resource for use in educational programs and for "practitioners" of residential exposure assessment.

Accordingly, this book is intended for risk assessors, exposure assessors, students, initi ates

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new to the concept of risk assessment, industrial hygienists assessing health hazards in the home, engineers, and monitoring specialists.

Effect of pH, DIC, orthophosphate, and sulfate on drinking water cuprosolvency

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Final environmental
impact report
Hazardous
Substances
Disposal and Reuse
of Naval Air Station,
Alameda and the
Fleet and Industrial
Supply Center
Alameda Annex and
Facility Alameda
Climate Change
and Water

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Legal Style for
California Courts
and Lawyers

*Understand the
effects of climate
change on urban
water and
wastewater utilities
with this collection
of international
scientific papers.*

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Case studies and practical planning, mitigating and adapting information provided on greenhouse gases, energy use, and water supply and quality issues. Owing to climate change related

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uncertainties and anticipated population growth, different parts of the developing and the developed world (particularly urban areas) are experiencing water shortages or flooding and security of fit-for-

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purpose supplies is becoming a major issue. The emphasis on decentralized alternative water supply systems has increased considerably. Most of the information on such systems is either scattered or focuses on large

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scale reuse with little consideration given to decentralized small to medium scale systems. Alternative Water Supply Systems brings together recent research into the available and innovative options

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*and additionally
shares experiences
from a wide range
of contexts from
both developed and
developing
countries.*

*Alternative Water
Supply Systems
covers technical,
social, financial
and institutional*

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aspects associated with decentralized alternative water supply systems. These include systems for greywater recycling, rainwater harvesting, recovery of water through condensation and sewer mining. A

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number of case studies from the UK, the USA, Australia and the developing world are presented to discuss associated environmental and health implications. The book provides insights into a range of aspects associated with alternative

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*water supply systems
and an evidence
base (through case
studies) on potential
water savings and
trade-offs. The
information
organized in the
book is aimed at
facilitating wider
uptake of context
specific alternatives*

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*at a decentralized
scale mainly in
urban areas. This
book is a key
reference for
postgraduate level
students and
researchers
interested in
environmental
engineering, water
resources*

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*management, urban
planning and
resource efficiency,
water demand
management,
building service
engineering and
sustainable
architecture. It
provides practical
insights for water
professionals such*

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*as systems designers,
operators, and
decision makers
responsible for
planning and
delivering
sustainable water
management in
urban areas through
the implementation
of decentralized
water recycling.*

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***Authors: Fayyaz Ali
Memon, Centre for
Water Systems,
University of Exeter,
UK and Sarah
Ward, Centre for
Water Systems,
University of Exeter,
UK***

***A Community
Perspective
A Sourcebook***

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*University of
California,
Berkeley, 2020 Long
Range Development
Plan & Chang-Lin
Tien Center for East
Asian Studies
Water Resources
Planning, (M50)
Sustainable Use of
Water
Hearings Before the*

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*Subcommittee on
Water Resources of
the Committee on
Environment and
Public Works,
United States
Senate, Ninety-fifth
Congress ...*

In the quest to
reduce costs and
improve the
efficiency of

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water and wastewater services, many communities in the United States are exploring the potential advantages of privatization of those services. Unlike other utility services,

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local

governments
have generally
assumed
responsibility for
providing water
services.

Privatization of
such services
can include the
outright sale of
system assets,

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or various forms of public-private partnerships â € "from the simple provision of supplies and services, to private design construction and operation of treatment plants and distribution

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systems. Many factors are contributing to the growing interest in the privatization of water services. Higher operating costs, more stringent federal water quality and waste effluent

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standards,
greater customer
demands for
quality and
reliability, and an
aging water
delivery and
wastewater
collection and
treatment
infrastructure
are all

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challenging municipalities that may be short of funds or technical capabilities. For municipalities with limited capacities to meet these challenges, privatization can

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be a viable
alternative.

Privatization of
Water Services
evaluates the
fiscal and policy
implications of
privatization,
scenarios in
which
privatization
works best, and

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the efficiencies that may be gained by contracting with private water utilities.

Water conservation is one of the most effective sustainable design practices,

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yet few
professionals
know how to
collect and use
rainwater
effectively.

Rainwater
Harvesting the
first
comprehensive
book on
designing

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rainwater
harvesting
systems. It
provides
practical
guidelines for
developing a
rainwater
harvesting
strategy, taking
into account
climate, public

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policies,
environmental
impact, and end
uses. Case
studies are
included
throughout.
Rainwater
Harvesting is a
valuable
reference for
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King, Jr. Plaza,
City of Oakland
Preventing the
Next Urban

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Water Crisis
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An Assessment
of Risks, Costs,
and Benefits
Alternative
Water Supply
Systems
*Greywater Reuse
examines the
features and*

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*implications of
greywater reuse
scientifically,
quantitatively,
and thoroughly.
Based on the
authors'
extensive
studies of
treatment
facilities in
urban and rural
environments,
development of*

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*greywater
treatment
systems, and
research of
potential
environmental
and health risks
posed by
greywater at
different
treatment
levels, this
authoritative
text: Describes*

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*the chemical,
physical, and
microbial
properties of
greywater Covers
the treatment
and removal of
greywater
pollutants,
providing case
studies of
common methods
Identifies the
risks involved*

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*in greywater use
and proposes
regulatory
measures to help
reduce these
risks Reviews
the greywater
management
strategies,
policies, and
legislation of
several
different
countries*

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Discusses the prevailing public perception and willingness to adopt various uses of greywater
Analyzes the economic impact of greywater reuse from both the consumer and national

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*perspectives
Greywater Reuse
addresses all
major aspects
related to
greywater reuse,
making it a
valuable
resource for a
variety of
applications.
When the rivers
run dry--water
solutions for a*

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*thirsty planet.
In the Age of
Scarcity now
upon us, fresh
water shortages
are an
increasingly
serious global
problem. With
water
restrictions
emerging in many
developed
countries and*

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for industrial,
urban, and
environmental
reasons stirring
up oceans of
controversy,
there is a
growing thirst
for innovative
approaches to
reducing our
water footprint.
Dry Run shows*

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*the best ways to
manage scarce
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and handle
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Featuring
original
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more than twenty-
five water
researchers and
industry
experts, this*

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*book explains
water issues and
proposes
solutions for
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*Examining the
vital linkages
between water,
energy use,
urban
development, and*

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*climate change,
Dry Run
demonstrates
best practices
for achieving
“net zero” water
use in the built
environment,
including: Water
conservation
strategies for
buildings,
factories,
cities, and*

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harvesting
Graywater reuse
and water
reclamation
systems Water
efficiency
retrofits On-
site sewage
treatment New
water reuse and
supply
technologies
Ideal for*

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*concerned
citizens,
building
managers,
homeowners,
architects,
engineers,
developers, and
public officials
faced with
charting a
course in a more
arid future, Dry
Run overflows*

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with practical solutions. Jerry Yudelson , PE, LEED AP, leads the Yudelson Associates consultancy and is a leading authority on green building, clean water, and sustainable development. He is the author of

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*eleven books,
including
Choosing Green
and Green
Building A to Z*

*.
Environmental
Impact Statement
Using Graywater
and Stormwater
to Enhance Local
Water Supplies
California
Success Stories*

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*Journal
Public Health
Engineering
Abstracts
Privatization of
Water Services
in the United
States*

This book constitutes
the refereed
proceedings of the 9th
International
Conference on

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Pervasive Computing,
Pervasive 2011, held
in San Francisco,
USA, in June 2011.
The 19 revised full
papers and three short
papers presented were
carefully reviewed
and selected from 93
submissions. The
contributions are
grouped into the
following topical

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sections: practices with smartphones; sensing at home, sensing at work; predicting the future; location sensing; augmenting mobile phone use; pervasive computing in the public arena; public displays; hands on with sensing; sensing on the body.

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This Manual of Water Supply Practices provides utility guidance on how to develop an integrated resource plan for ensuring adequate water supplies to accommodate projected future water demands. Covers all topics of water resources planning:

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demand forecasting,
evaluation of potential
new source waters,
hydrologic modeling,
regulatory issues,
environmental impact
analysis, public
involvement, and
economic analysis.
Includes sample
Integrated Resources
Plans developed by
water utilities.

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9th International
Conference, Pervasive
2011, San Francisco,
USA, June 12-15,
2011. Proceedings
Life-cycle Energy
Assessment of
Alternative Water
Supply Systems in
California
Dry Run
An Assessment of
Issues and Experience

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A Story of Water

The Potential for

Urban Water

Conservation in

California

Chronic and episodic water shortages are becoming common in many regions of the United States, and population growth in water-scarce regions further compounds

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the challenges.

Increasingly,
alternative water
sources such as
graywater-untreated
wastewater that does
not include water
from the toilet but
generally includes
water from bathroom
sinks, showers,
bathtubs, clothes
washers, and laundry
sinks- and

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stormwater-water from rainfall or snow that can be measured downstream in a pipe, culvert, or stream shortly after the precipitation event-are being viewed as resources to supplement scarce water supplies rather than as waste to be discharged as rapidly

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as possible.

Graywater and stormwater can serve a range of non-potable uses, including irrigation, toilet flushing, washing, and cooling, although treatment may be needed. Stormwater may also be used to recharge groundwater, which

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may ultimately be tapped for potable use. In addition to providing additional sources of local water supply, harvesting stormwater has many potential benefits, including energy savings, pollution prevention, and reducing the impacts of urban

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development on
urban streams.

Similarly, the reuse
of graywater can
enhance water
supply reliability and
extend the capacity
of existing
wastewater systems
in growing cities.

Despite the benefits
of using local
alternative water
sources to address

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water demands, many questions remain that have limited the broader application of graywater and stormwater capture and use. In particular, limited information is available on the costs, benefits, and risks of these projects, and beyond

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the simplest applications many state and local public health agencies have not developed regulatory frameworks for full use of these local water resources. To address these issues, Using Graywater and Stormwater to Enhance Local Water Supplies analyzes the

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risks, costs, and benefits on various uses of graywater and stormwater. This report examines technical, economic, regulatory, and social issues associated with graywater and stormwater capture for a range of uses, including non-potable urban uses,

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irrigation, and groundwater recharge. Using Graywater and Stormwater to Enhance Local Water Supplies considers the quality and suitability of water for reuse, treatment and storage technologies, and human health and environmental risks

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of water reuse. The findings and recommendations of this report will be valuable for water managers, citizens of states under a current drought, and local and state health and environmental agencies.

East Bay Municipal
Utility District,
Supplemental Water

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Supply Project
Odor Control in
Wastewater
Treatment Plants
Designing Rainwater
Harvesting Systems
Water Conservation
in California
Draft Environment
Impact Statement
Waste Not, Want Not