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Engineering And

Irrigation E

ngineering

And

Hydraulics

Departmen

t Faculty

Now includes

Worked Examples for

lectutrrers in a

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design principles and

practical guidance

for key hydraulic

structures. Fully

revised and updated,

this new edition

contains enhanced

texts and sections

on: environmental

issues and the World

Commission on Dams

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*partially saturated
soils, small amenity
dams, tailing dams,
upstream dam face
protection and the
rehabilitation of
embankment dams
RCC dams and the
upgrading of
masonry and
concrete dams flow
over stepped
spillways and scour
in plunge pools*

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*cavitation, aeration
and vibration of
gates risk analysis
and contingency
planning in dam
safety small
hydroelectric power
development and
tidal and wave power
wave statistics,
pipeline stability,
wave-structure
interaction and
coastal modelling*

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Engineering And

computational models in hydraulic

engineering. The

book's key topics are explored in two parts

- dam engineering

and other hydraulic

structures - and the

text concludes with a chapter on models in

hydraulic

engineering. Worked

numerical examples

supplement the main

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*text and extensive
lists of references
conclude each
chapter. Hydraulic
Structures provides
advanced students
with a solid
foundation in the
subject and is a
useful reference
source for
researchers,
designers and other
professionals.*

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This textbook focuses specifically on the combined topics of irrigation and drainage engineering. It emphasizes both basic concepts and practical applications of the latest technologies available. The design of irrigation, pumping, and

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drainage systems
using Excel and
Visual Basic for
Applications

programs are explained for both graduate and undergraduate students and practicing engineers. The book emphasizes environmental protection, economics, and

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Engineering And

Hydraulics
It includes

detailed chapters on

irrigation economics,

soils, reference

evapotranspiration,

crop

evapotranspiration,

pipe flow, pumps,

open-channel flow,

groundwater, center

pivots, turf and

landscape, drip,

orchards, wheel

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*lines, hand lines,
surfaces, greenhouse*

hydroponics, soil

water movement,

drainage systems

design, drainage and

wetlands

contaminant fate and

transport. It contains

summaries,

homework problems,

and color photos. The

book draws from the

fields of fluid

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*mechanics, soil
physics, hydrology,
soil chemistry,
economics, and plant
sciences to present a
broad*

*interdisciplinary view
of the fundamental
concepts in irrigation
and drainage
systems design.*

IRRIGATION

ENGINEERING

Entropy Theory in

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Engineering And
*Hydraulic
Engineering
Bibliography of
Rivers and Harbors
and Related Fields in
Hydraulic
Engineering
Theory And Practices
Including
Contributions from
Canadian
Laboratories*
The Book Irrigation
And Water Resources

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Engineering And
Hydraulics

Engineering Deals
With The
Fundamental And
General Aspects Of
Irrigation And Water
Resources
Engineering And
Includes Recent
Developments In
Hydraulic Engineering
Related To Irrigation
And Water Resources
Engineering.

Significant Inclusions

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Department
In The Book Are A
Chapter On
Management
(Including Operation,
Maintenance, And
Evaluation) Of Canal
Irrigation In India,
Detailed
Environmental
Aspects For Water
Resource Projects, A
Note On Interlinking
Of Rivers In India,
And Design Problems

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Engineering And

Of Hydraulic

Structures Such As

Guide Bunds, Settling

Basins Etc. The First

Chapter Of The Book

Introduces Irrigation

And Deals With The

Need, Development

And Environmental

Aspects Of Irrigation

In India. The Second

Chapter On

Hydrology Deals With

Different Aspects Of

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Engineering And

Surface Water

Hydraulics
Resource. Soil-Water

Relationships Have

Been Dealt With In

Chapter 3. Aspects

Related To Ground

Water Resource Have

Been Discussed In

Chapter 4. Canal

Irrigation And Its

Management Aspects

Form The Subject

Matter Of Chapters 5

And 6. Behaviour Of

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7 And 8,

Respectively.

Concepts Of Surface

And Subsurface

Flows, As Applicable

To Hydraulic

Structures, Have

Been Introduced In

Chapter 9. Different

Types Of Canal

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Engineering And

Structures Have Been
Hydraulics
Discussed In

Chapters 10, 11, And

13. Chapter 12 Has

Been Devoted To

Rivers And River

Training Methods.

After Introducing

Planning Aspects Of

Water Resource

Projects In Chapter

14, Embankment

Dams, Gravity Dams

And Spillways Have

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Been Dealt With,
Respectively, In
Chapters 15, 16 And
17. The Students
Would Find Solved
Examples (Including
Design Problems) In
The Text, And
Unsolved Exercises
And The List Of
References Given At
The End Of Each
Chapter Useful.
Graduate Study and

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Engineering And
Research in
Hydraulic, Irrigation,
and Water Resources
Engineering at the
University of
California
Irrigation
Engineering And
Hydraulic Structures
IRRIGATION
ENGINEERING
Hydraulic Engineering
of Dams
A Handbook On
Irrigation And

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Drainage
Hydraulics
Hydraulic Modeling
Applications in Main
System Management
Current Hydraulic
Laboratory Research
in the United States
Environmental
Hydraulics
This book provides
1-page short
biographies of
scientists and

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engineers having
worked in the areas of
hydraulic engineering
and fluid dynamics in
the USA. On each
page, a notable
individual is
highlighted by: (1)
Exact dates and
locations of birth and
death; (2) Educational
and professional
details, including also

awards received; (3)

Rea

Market_Desc: For the
undergraduate students
of civil engineering at
major Indian
universities and
engineering colleges.

The text is also useful
to the experts and
professionals in the
field of irrigation and
agriculture. Special

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Features: · Presents neatly-drawn drawings of dams, spillways, canals and cross-drainage works, not provided with any other book.· Explains all aspects of soil moisture, irrigation systems, tanks, dams and canal river systems, water rights and environmental

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aspects.· Discusses live case studies of major dams (the Tehri Dam, the Almatti Dam) for easy understanding of some important concepts.· Explains all topics with solved examples and neatly-drawn sketches.· Uses the SI units throughout the book.· Supplies chapter-end problems

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and objective questions for self assessments. About The Book: Irrigation Engineering is designed for the undergraduate students of civil engineering at major Indian universities and engineering colleges. The text is also useful to the experts and

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professionals in the field of irrigation and agriculture. The content is divided into two parts: Part A and Part B. Part A contain 21 chapters. In this part, the author has discussed various irrigation systems usually adopted in different agro-climatic regions in India. With

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neatly-drawn sketches, the design of irrigation structures for storage, diversion, distribution and control are illustrated with exam-oriented worked-out examples. Part B of the book comprises 27 irrigation/hydraulic structures (called plates), presenting sketches with usual

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three-views to scale of
dams, spillways, canals

Department
and cross-drainage

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works. These sketches

are furnished with all

details and dimensions

(workable drawings)

with lucid and

complete designs.

Hydraulicians in the

USA 1800-2000

Distributary Velocity

and Discharge Tables

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Evaluation of the
Shany Method for
Estimating the
Hydraulic Properties
of Soil

Bulletin

*Focuses On an
Emerging Field in
Water EngineeringA
broad treatment of the
Tsallis entropy theory
presented from a
water resources*

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engineering point of view, Introduction to Tsallis Entropy Theory in Water Engineering fills a growing need for material on this theory and its relevant applications in the area of water engineering. This self-contained

This exciting new textbook introduces

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*the concepts and
tools essential for
upper-level
undergraduate study
in water resources
and hydraulics.*

*Tailored specifically to
fit the length of a
typical one-semester
course, it will prove a
valuable resource to
students in civil
engineering, water
resources*

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*engineering, and
environmental
engineering. It will
also serve as a
reference textbook for
researchers,
practicing water
engineers,
consultants, and
managers. The book
facilitates students'
understanding of both
hydrologic analysis
and hydraulic design.*

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Example problems are carefully selected and solved clearly in a step-by-step manner, allowing students to follow along and gain mastery of relevant principles and concepts. These examples are comparable in terms of difficulty level and content with the end-of-chapter student

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exercises, so students
will become well

Department
equipped to handle

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relevant problems on

their own. Physical

phenomena are

visualized in engaging

photos, annotated

equations, graphical

illustrations,

flowcharts, videos,

and tables.

Report

A Commemorative

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*Volume Honoring
Hunter Rouse*

*Water Resources and
Hydraulics*

*Hydraulic Research in
the U.S.*

Hydraulic Structures
Vijay Singh

explains the basic
concepts of
entropy theory
from a hydraulic
perspective and

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demonstrates the theory's application in solving practical engineering problems.

Triggered primarily by ill effects of polluted air, soil and water resources on living species, public

concern for environmental quality has been growing during the past four decades or so. One manifestation of this concern is found in occurrence of public debates as well as in the

demand for full
environmental
impact
assessment before
a water-resources
project is
approved.
Engineering
soundness and
economic
feasibility are no
longer sufficient

criteria for
construction of
hydraulic works.

As a result,
environmental
considerations
have become very
much a part of
hydraulic analyses.
In response to
growing
environmental

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concerns, the field of hydraulics has expanded and a new branch, called Environmental Hydraulics, has emerged. The focus of this branch is on hydraulic analyses of those environmental

issues that are important for protection, restoration, and management of environmental quality. The motivation for this book grew out of the desire to provide a hydraulic discussion of some

of the key environmental issues. It is hoped that the book would serve to stimulate others to write more comprehensive texts on this subject of growing importance.

An Introduction

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Engineering And

Fluid Mechanics,

Hydraulics,

Hydrology and

Water Resources

for Civil Engineers

Hydraulic Ram

Use for Sprinkle

Irrigation

Graduate Study

and Research in

Hydraulic,

Irrigation, and

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Engineering And

Water Resources
Hydraulics
Engineering at the

Department
University of

Faculty
California

Megatrends in

Hydraulic

Engineering

Hydraulic

engineering of

dams and their

appurtenant

structures

counts among the

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essential tasks
to successfully
design safe
water-retaining
reservoirs for
hydroelectric
power
generation,
flood retention,
and irrigation
and water supply
demands. In view
of climate
change,

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especially dams
and reservoirs,
among other
water
infrastructure,
will and have to
play an even
more important
role than in the
past as part of
necessary
mitigation and
adaptation
measures to

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satisfy vital
needs in water
supply,
renewable energy
and food
worldwide as
expressed in the
Sustainable
Development
Goals of the
United Nations.
This book deals
with the major
hydraulic

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aspects of dam
engineering
considering
recent
developments in
research and
construction,
namely overflow,
conveyance and
dissipations
structures of
spillways, river
diversion
facilities

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during

construction,

bottom and low-

level outlets as

well as intake

structures.

Furthermore, the

book covers

reservoir

sedimentation,

impulse waves

and dambreak

waves, which are

relevant topics

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in view of
sustainable and
safe operation
of reservoirs.
The book is
richly
illustrated with
photographs,
highlighting the
various
appurtenant
structures of
dams addressed
in the book

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chapters, as well as figures and diagrams showing important relations among the governing parameters of a certain phenomenon. An extensive literature review along with an updated

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bibliography
complete this
book.

This book for
Agriculture and
Agricultural and
Civil Engineers
and will be very
much helpful for
the beginning
students in
irrigation. It
is designed to
guide its

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readers in:

Basic knowledge

of soil, water

and plant,

hydrologic and

hydraulics to

the state-of-the-

art of

irrigation

system design

and management.

Presented the

principles and

concepts of farm

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irrigation in a simple manner to maximize the students learning, understanding and motivation. The method and order of presentation have been carefully developed and classroom tested

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to make this
book a useful
and effective
teaching tool.

The book is
written covering
syllabus of
irrigation
engineering
which is taught
in different
State
Agricultural
Universities as

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well as in the department of Civil Engineering of different Engineering colleges. The book contains adequate solved problems, short and long type questions, tables, figures which will be

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immensely
helpful to the
students and
design
engineers.

Several field
experimental
results have
also been
incorporated in
the book at
appropriate
sections to make
the book

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interesting for
the readers.

Hydraulics of
the Surge Flow
Cutback Regime
Irrigation

Engineering
Introduction to
Tsallis Entropy
Theory in Water
Engineering
Hydraulic
Research in the
United States

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1959
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Research in the
United States

This text book is designed to guide students from a basic knowledge of soil, water, plant, hydrologic and hydraulics to the state-of-the-art of irrigation system design, planning and

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management. The
book will be helpful

to the students of

Agriculture,

Agricultural and

Civil Engineering

and other related

fields. The book is

written in simple

and lucid languages

which will make the

students interesting

in reading the book

and understanding

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covering the entire
syllabus of

Irrigation

Engineering which
is taught in various

State Agricultural
Universities and is

written as per the
recommended

syllabus of fifth

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Deans' Committee meeting of Indian Council of Agricultural Research (ICAR), New Delhi. The book will not only be helpful to the students at undergraduate and post-graduate level, but also will be a helping tool for all practicing irrigation

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engineers,
agriculturists,
design engineers,
researchers,
extension personnel
and all others who
are directly or
indirectly
associated with
irrigation science
and engineering.

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comprehensively
deals with all
aspects of Irrigation
in India, soil
moisture and
different types of
irrigation systems
including but not
limited to Sprinkler,
Tubewell, Canal and
Micro-Irrigation.
The book also
focuses on

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Hydrology, Dams,
Water Power
Engineering as well
as Irrigation Water
Management.

Special care has
been taken to
highlight the
principles, practices
and design
procedures that
have been widely
recommended as

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well as suggest improvements in the application of existing methods and adoption of latest techniques used in other parts of the world.

Furrow Hydraulics
with Two-
dimensional
Infiltration
Irrigation and
Drainage

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Engineering
Application of
Culvert Hydraulics
in Designing Pipe
Outlets

Irrigation and Water
Resources

Engineering

Surge Flow Furrow
Irrigation

Hydraulics with
Zero Inertia

Learn the

principles and

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practice of water
resources
engineering from a
leader in the field!

Now updated with
a new chapter on
sedimentation

(Chapter 18), this

2005 Edition of

Larry Mays's

WATER

RESOURCES

ENGINEERING

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provides you with the state-of-the-art in the field. With remarkable range and depth of coverage, Professor Mays presents a straightforward, easy-to-understand presentation of hydraulic and hydrologic processes using the

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control volume approach. He then extends these processes into practical applications for water use and water excess, including water distribution systems, stormwater control, and flood control.

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With its strong emphasis on analysis and design, this text will be a resource you'll refer to throughout your career! Features New! A new chapter (Chapter 18) covers sedimentation. Practical

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applications will
prepare you for
engineering
practice. Coverage
spans an
extraordinary
range of topics.
Many example
problems with
solutions will help
you hone your
problem-solving
skills. Practice

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problems at the end of each chapter offer you the opportunity to apply what you've learned. Includes a review of basic fluid concepts and the control volume approach to fluid mechanics. Larry W. Mays is Professor of Civil

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Engineering And

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Engineering at

Department
Arizona State

University and

former chair of the

department. He

was formerly

Director of the

Center for

Research in Water

Resources at The

University of Texas

at Austin, where he

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also held an
Engineering
Foundation
Endowed
Professorship. A
registered
professional
engineer in seven
states and a
registered
professional
hydrologist, he has
served as a

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consultant to many
organizations.

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Professor Mays is
author of Optimal
Control for

Hydrosystems

(Marcel-Dekkar,

Inc.), co-author of

Applied Hydrology

(McGraw-Hill) and

Hydrosystems

Engineering and

Management

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Engineering And
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(McGraw-Hill), and
editor-in-chief of
the Water

Resources

Handbook

(McGraw-Hill),

Hydraulic Design

Handbook

(McGraw-Hill), and
the Water

Distribution

Systems Handbook

(McGraw-Hill). He

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was also editor-in-
chief of Reliability

Analysis of Water

Distribution

Systems (ASCE)

and co-editor of

Computer Modeling

of Free Surface and

Pressurized Flows

(Kluwer Academic

Publishers). Among

his honors include

a distinguished

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Department
of Illinois at Urbana-

Champaign in

1999.

One of the core areas of study in civil engineering concerns water that encompasses fluid mechanics, hydraulics and hydrology. Fluid

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mechanics provide the mathematical and scientific basis for hydraulics and hydrology that also have added empirical and practical contents. The knowledge contained in these three subjects is necessary for the optimal and

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equitable management of this precious resource that is not always available when and where it is needed, sometimes with conflicting demands. The objective of Fluid Mechanics, Hydraulics, Hydrology and

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Water Resources
for Civil Engineers
is to assimilate
these core study
areas into a single
source of
knowledge. The
contents highlight
the theory and
applications
supplemented with
worked examples
and also include

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comprehensive
references for
follow-up studies.

The primary
readership is civil
engineering
students who would
normally go
through these core
subject areas
sequentially spread
over the duration of
their studies. It is

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also a reference for practicing civil engineers in the water sector to refresh and update their skills.

Irrigation
Engineering and
Hydraulic
Structures
National
Engineering
Handbook

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engineering and

fluid mechanics

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Structures

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Unsteady, Open-

channel Flow Over

a Porous Bed