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Highway
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***Traffic
Highway En
gineering
4th
Edition***

The repair,
renovation and
replacement of
highway
infrastructure, along

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with the provision of new highways, is a core element of civil engineering, so this book covers basic theory and practice in sufficient depth to provide a solid grounding to students of civil engineering and trainee practitioners. Moves in a logical

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sequence from the
planning and
economic
justification for a
highway, through
the geometric
design and traffic
analysis of highway
links and
intersections, to the
design and
maintenance of both
flexible and rigid

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pavements Covers
geometric alignment
of highways,
junction and
pavement design,
structural design
and pavement
maintenance

Includes detailed
discussions of traffic
analysis and the
economic appraisal
of projects Makes

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frequent reference
to the Department of
Transport's Design
Manual for Roads
and Bridges Places
the provision of
roads and
motorways in
context by
introducing the
economic, political,
social and
administrative

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dimensions of the subject

This unique book presents comprehensive and in-depth coverage of traffic engineering. KEY TOPICS It discusses all modern topics in traffic engineering, including design, construction,

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operation,
maintenance, and
system. For anyone
involved in traffic
studies,
engineering,
analysis, and control
and operations.

The 5th edition of
the Mannering's
Principles
of Highway
Engineering and

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Traffic Analysis continues to offer a concise approach that covers all the necessary fundamental concepts. New features in this edition include updates and more consistency with the latest edition of the Highway Capacity Manual

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(HCM); the inclusion of sample FE exam questions, call-out of common mistakes; and added coverage on a qualitative description of the mechanistic approach.

Gain unique insights into all facets of today's traffic and highway

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engineering with the
enhanced edition of
Garber and Hoel's
best-selling

TRAFFIC AND
HIGHWAY

ENGINEERING, SI
Edition, 5th Edition.

This edition initially
highlights the pivotal
role that

transportation plays
in today's society.

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Readers examine employment opportunities that transportation creates, its historical impact and the influences of transportation on modern daily life. This comprehensive approach offers an accurate understanding of the

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Edition

field with emphasis
on some of
transportation's
distinctive
challenges. Later
chapters focus on
specific issues
facing today's
transportation
engineers to
prepare readers to
overcome common
obstacles in the

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Edition

field. Worked problems, diagrams and tables, reference materials and meaningful examples clearly demonstrate how to apply and build upon the transportation engineering principles presented.

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Engineering
Fundamentals: An
Introduction to
Engineering, SI
Edition

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Engineering 4th
Edition

Road Engineering
for Development,
Second Edition
An Informational
Guide

Traffic Engineering

***This fully
revised fourth
edition of Max
Lay's well-
established
reference work***

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Highway

Engineering 4th
Edition

*covers all
aspects of the
technology of
roads and road
transport, and
urban and
rural road
technology. It
forms a
comprehensive
but accessible
reference for*

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Highway
Engineering 4th
Edition

*all
professionals
and students
interested in
roads, road
transport and
the wide range
of disciplines
involved with
roads.*

*International
in scope, it*

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Engineering 4th
Edition

*begins with
the
preliminary
construction
procedures;
from road
planning
policies and
design
considerations
to the
selection of*

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Edition

*materials and
the building
of roads and
bridges. It
then explores
road operating
environments
that include
driver
behaviour,
traffic flow,
lighting and*

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Highway

Engineering 4th
Edition

*maintenance,
and assesses
the cost,
economics,
transport
implications
and
environmental
impact of road
use. It draws
on Max Lay's
unparalleled*

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Engineering 4th
Edition

*consulting and
operational
experience in
the financing,
planning,
design,
construction,
operation and
management of
roads in
various
countries. It*

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Highway

Engineering 4th
Edition

*forms an
indispensable
resource for
transport
planning,
engineering,
operations and
economics.*

*For more than
25 years, the
multiple
editions of*

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Engineering 4th
Edition

*Hydrology &
Hydraulic
Systems have
set the
standard for a
comprehensive,
authoritative
treatment of
the
quantitative
elements of
water*

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resources

development.

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extends this

tradition of

excellence in

a thoroughly

revised volume

that reflects

the current

state of

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Edition

*practice in
the field of
hydrology.*

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for its direct
and concise
presentation,
practical
orientation,
and wealth of
example
problems,*

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Highway

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Edition

***Hydrology &
Hydraulic
Systems***

presents

fundamental

theories and

concepts

balanced with

excellent

coverage of

engineering

applications

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Engineering 4th
Edition

and design.

The Fourth

Edition

features a

major revision

of the chapter

on

distribution

systems, as

well as a new

chapter on the

application of

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Edition
*remote sensing
and computer
modeling to
hydrology.*

*Outstanding
features of
the Fourth
Edition*

include . . .

- More than
350*

illustrations

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and 200 tables

- More than 225 fully solved examples, both in FPS and SI units
- Fully worked-out examples of design projects with realistic data

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Edition

*• More than
500 end-of-
chapter
problems for
assignment •
Discussion of
statistical
procedures for
groundwater
monitoring in
accordance
with the EPA's*

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Edition

***Unified
Guidance •***

***Detailed
treatment of
hydrologic
field
investigations
and analytical
procedures for
data
assessment,
including the***

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Highway

Engineering 4th
Edition
USGS acoustic

Doppler

current

profiler

(ADCP)

approach •

Thorough

coverage of

theory and

design of

loose-boundary

channels,

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Engineering 4th
Edition

*including the
latest concept
of combining
the regime
theory and the
power function
laws*

*'Highways' is
a
comprehensive
textbook on
all aspects of*

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Highway
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road
Edition

engineering.

This new

edition,

written by a

team of

acknowledged

experts in the

field, teams

up with

'Transport

Planning and

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Edition

*Traffic
Engineering'
to become a
worthy
successor to
O'Flaherty's
classic
'Highway
Engineering'
set. This
fourth edition
covers road*

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Highway

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Edition

*location and
plans,
roadwork
materials,
surface and
subsurface
moisture
control,
pavement
design and
construction,
thickness*

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Highway

Engineering 4th
Edition

*design of
bituminous and
concrete
pavements and
road
maintenance
and rehabilita
tion. The
content has
been expanded
and thoroughly
updated to*

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Highway

Engineering 4th
Edition

*take into
account new
developments
in the
subject,
making it
essential
reading for
students of
civil engineer
ing. comprehens
ive coverage*

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Engineering 4th
Edition
including less

*well-covered
subjects such
as maintenance
contributions
from both
academic and
professional
engineers*

*A reference
work offering
information on*

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Highway

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Edition

*the basic
principles and
the proven
techniques of
traffic
engineering.*

Civil

Engineer's

Reference Book

Traffic and

Highway

Engineering,

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Edition

***Enhanced SI
Edition***

***Soil Mechanics
Laboratory
Manual***

***Advances in
Transportation
Geotechnics IV***

*A comprehensive
textbook on all
aspects of road
engineering, from the*

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Edition

planning stages through to the design, construction and maintenance of road pavements, this edition has been expanded and updated to take into account developments in the field.

A multi-disciplinary approach to transportation planning fundamentals

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Edition

The Transportation Planning Handbook is a comprehensive, practice-oriented reference that presents the fundamental concepts of transportation planning alongside proven techniques. This new fourth edition is more strongly focused on serving the needs of all users,

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the role of safety in the planning process, and transportation planning in the context of societal concerns, including the development of more sustainable transportation solutions. The content structure has been redesigned with a new format that promotes a more functionally driven

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Engineering 4th
Edition

multimodal approach to planning, design, and implementation, including guidance toward the latest tools and technology. The material has been updated to reflect the latest changes to major transportation resources such as the HCM, MUTCD, HSM, and more, including

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Engineering 4th
Edition

*the most current
ADAaccessibility
regulations.*

*Transportation
planning has
historically followed
the rationalplanning
model of defining
objectives, identifying
problems,generating
and evaluating
alternatives, and
developing
plans.Planners are*

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Engineering 4th Edition

increasingly expected to adopt a more multi-disciplinary approach, especially in light of the rising importance of sustainability and environmental concerns. This book presents the fundamentals of transportation planning in a multidisciplinary context, giving

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readers a practical reference for day-to-day answers. Serve the needs of all users Incorporate safety into the planning process Examine the latest transportation planning software packages Get up to date on the latest standards, recommendations, and codes Developed

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Engineering 4th Edition
by The Institute of Transportation

Engineers, this book is the culmination of over seventy years of transportation planning solutions, fully updated to reflect the needs of a changing society. For a comprehensive guide with practical answers, The Transportation

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Engineering 4th Edition
Planning Handbook is an essential reference.

'Transport Planning and Traffic

Engineering' is a comprehensive

textbook on the relevant principles and practice. It

includes sections on transport policy and planning, traffic

surveys and accident investigation, road

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*Engineering 4th
Edition*

*design for capacity
and safety, and traffic
management. Clearly
written and illustrated,
the book is ideal
reading for students of
t*

*Gain unique insights
into all facets of
today's traffic and
highway engineering
with the enhanced
edition of Garber and
Hoel's best-selling*

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Engineering 4th Edition TRAFFIC AND HIGHWAY

*ENGINEERING, 5th
Edition. This edition
initially highlights the
pivotal role that
transportation plays in
today's society.*

*Readers examine
employment
opportunities that
transportation creates,
its historical impact
and the influences of*

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transportation on modern daily life. This comprehensive approach offers an accurate understanding of the field with emphasis on some of transportation's distinctive challenges. Later chapters focus on specific issues facing today's transportation

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engineers to prepare readers to overcome common obstacles in the field. Worked problems, diagrams and tables, reference materials and meaningful examples clearly demonstrate how to apply and build upon the transportation engineering principles presented. Important

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*Handbook of Road
Technology, Fourth
Edition*

*Highway Traffic
Analysis and Design
Traffic and Highway
Engineering
Highways*

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Highway
Engineering 4th
Edition

*Civil
Engineer's
Reference Book,
Fourth Edition
provides civil
engineers with
reports on
design and
construction
practices in
the UK and
overseas. It
gives a concise*

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Edition

*presentation of
theory and
practice in the
many branches
of a civil
engineer's
profession and
it enables them
to study a
subject in
greater depth.
The book
discusses some*

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Edition

*improvements in
earlier
practices, for
example in
surveying,
geotechnics,
water
management,
project
management,
underwater
working, and
the control and*

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*use of
materials.*

*Other changes
covered are
from the
evolving needs
of clients for
almost all
forms of
construction,
maintenance and
repair. Another
major change is*

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Edition

*the introduction of
new national
and Euro-codes
based on limit
state design,
covering most
aspects of
structural
engineering.
The fourth
edition
incorporates*

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Engineering 4th
Edition

*these advances
and, at the
same time,
gives greater
prominence to
the special
problems
relating to
work overseas,
with differing
client
requirements
and climatic*

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conditions.
Chapters 1 to
10 provide
engineers, at
all levels of
development,
with 'lecture
notes' on the
basic theories
of civil
engineering.

Chapters 11 to
44 cover the

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Edition

*practice of
design and
construction in
many of the
fields of civil
engineering.*

*Civil
engineers,
architects,
lawyers,
mechanical
engineers,
insurers,*

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Edition

*clients, and
students of
civil
engineering
will find
benefit in the
use of this
text.*

*Highly regarded
for its clarity
and depth of
coverage, the
bestselling*

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*Principles of
Highway*

*Engineering and
Traffic
Analysis*

*provides a
comprehensive
introduction to
the highway-
related*

*problems civil
engineers*

encounter every

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day.

*Emphasizing
practical
applications
and up-to-date
methods, this
book prepares
students for
real-world
practice while
building the
essential
knowledge base*

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Edition

*required of a
transportation
professional.*

*In-depth
coverage of
highway
engineering and
traffic
analysis, road
vehicle
performance,
traffic flow
and highway*

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*capacity,
pavement
design, travel
demand, traffic
forecasting,
and other
essential
topics equips
students with
the
understanding
they need to
analyze and*

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*solve the
problems facing
America's
highway system.
This new
Seventh Edition
features a new
e-book format
that allows for
enhanced
pedagogy, with
instant access
to solutions*

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Highway
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*for selected
problems.*

*Coverage
focuses
exclusively on
highway
transportation
to reflect the
dominance of
U.S. highway
travel and the
resulting
employment*

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Edition

*opportunities,
while the depth
and scope of
coverage is
designed to
prepare
students for
success on
standardized
civil
engineering
exams.*

Already the

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*market leader
in the field,*

Modelling

Transport has

become still

more

indispensible

following a

thorough and

detailed

update.

Enhancements

include two

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*entirely new
chapters on
modelling for
private sector
projects and on
activity-based
modelling; a
new section on
dynamic
assignment and
micro-
simulation; and
sizeable*

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*updates to
sections on
disaggregate
modelling and
stated
preference
design and
analysis. It
also tackles
topical issues
such as
valuation of
externalities*

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Edition

*and the role of
GPS in travel
time surveys.*

*Providing
unrivalled
depth and
breadth of
coverage, each
topic is
approached as a
modelling
exercise with
discussion of*

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*the roles of
theory, data,
model
specification,
estimation,
validation and
application.
The authors
present the
state of the
art and its
practical
application in*

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*a pedagogic
manner, easily
understandable
to both
students and
practitioners.
Follows on from
the highly
successful
third edition
universally
acknowledged as
the leading*

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*text on
transport
modelling
techniques and
applications
Includes two
new chapters on
modelling for
private sector
projects and
activity based
modeling, and
numerous*

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updates to

existing

chapters

Incorporates

treatment of

recent issues

and concerns

like risk

analysis and

the dynamic

interaction

between land

use and

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Highway
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transport

Provides

comprehensive

and rigorous

information and

guidance,

enabling

readers to make

practical use

of every

available

technique

Relates the

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*topics to new
external*

*factors and
technologies
such as global
warming,
valuation of
externalities
and global
positioning
systems (GPS).*

*Now in its
sixth edition,*

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*Soil Mechanics
Laboratory
Manual is
designed for
the junior-
level soil mech
anics/geotechni
cal engineering
laboratory
course in civil
engineering
programs. It
includes*

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eighteen
laboratory
procedures that
cover the
essential
properties of
soils and their
behavior under
stress and
strain, as well
as
explanations,
procedures,

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*sample
calculations,
and completed
and blank data
sheets. Written
by Braja M.*

*Das, respected
author of
market-leading
texts in
geotechnical
and foundation
engineering,*

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Edition

*this unique
manual provides
a detailed
discussion of
standard soil
classification
systems used by
engineers: the
AASHTO
Classification
System and the
Unified Soil
Classification*

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System, which both conform to recent ASTM specifications. To improve ease and accessibility of use, this new edition includes not only the stand-alone version of the Soil

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Mechanics

*Laboratory Test
software but
also ready-made
Microsoft
Excel (r)
templates
designed to
perform the
same
calculations.*

*With the
convenience of*

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Edition

*point and click
data entry,
these
interactive
programs can be
used to
collect,
organize, and
evaluate data
for each of the
book's eighteen
labs. The
resulting*

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Edition

*tables can be
printed with
their
corresponding
graphs,
creating easily
generated
reports that
display and
analyze data
obtained from
the manual's
laboratory*

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Engineering 4th
Edition
tests. Features

- Includes sample calculations and graphs relevant to each laboratory test . Supplies blank tables (that accompany each test) for laboratory use and report

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Edition

*preparation .
Contains a
complete
chapter on soil
classification
(Chapter 9) .*

*Provides
references and
three useful
appendices:*

*Appendix A:
Weight-Volume
Relationships*

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Appendix B:
*Data Sheets for
Laboratory
Experiments*

Appendix C:
*Data Sheets for
Preparation of
Laboratory
Reports"*

*Planning,
Design, and
Development of
21st Century*

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Airports

Forensic

Structural

Engineering

Handbook

Highways:

*Highways and
traffic*

Highways,

Fourth Edition

Specifically

designed as an

introduction to

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Edition

*the exciting world
of engineering,*

ENGINEERING

FUNDAMENTALS:

AN

INTRODUCTION

TO ENGINEERING

encourages

students to

become

engineers and

prepares them

with a solid

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Edition

*foundation in the
fundamental
principles and
physical laws. The
book begins with
a discovery of
what engineers
do as well as an
inside look into
the various areas
of specialization.
An explanation on
good study habits*

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and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and

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laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to

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design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles,

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*Engineering 4th
Edition*
*students are on
their way to*

*becoming
analytical, detail-
oriented, and
creative
engineers.*

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*The new edition
of Garber and
Hoel's best-selling
TRAFFIC AND
HIGHWAY
ENGINEERING
focuses on giving
students insight
into all facets of
traffic and*

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*highway
engineering.*

*Students
generally come to
this course with
little knowledge
or understanding
of the importance
of transportation,
much less of the
extensive career
opportunities
within the field.*

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Transportation is an extremely broad field, and courses must either cover all transportation modes or focus on specifics.

While many topics can be covered with a survey approach, this often lacks

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*sufficient depth
and students*

*leave the course
without a full
understanding of
any of the fields.
This text focuses
exclusively on
traffic and
highway
engineering
beginning with a
discussion of the*

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Edition

*pivotal role
transportation
plays in our
society, including
employment
opportunities,
historical impact,
and the impact of
transportation on
our daily lives.
This approach
gives students a
sense of what the*

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Edition*
*field is about as
well as an*

*opportunity to
consider some of
its challenges.*

*Later chapters
focus on specific
issues facing*

*transportation
engineers. The
text uses*

*pedagogical tools
such as worked*

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Edition

*problems,
diagrams and
tables, reference
material, and
realistic examples
to demonstrate
how the material
is applied.*

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*Highways' is a
comprehensive
textbook on all
aspects of road
engineering. This
new edition,
written by a team
of acknowledged
experts in the*

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Engineering 4th
Edition

*field, teams up
with 'Transport
Planning and
Traffic
Engineering' to
become a worthy
successor to
O'Flaherty's
classic 'Highway
Engineering' set.
This fourth
edition covers
road location and*

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Engineering 4th
Edition
*plans, roadwork
ma*

*Updated to take
into account
changes in
highway design
manuals and
procedures, this
book offers an in-
depth treatment
of highway
engineering and
traffic analysis.*

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Highway

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*Use-Traffic and
Highway*

Engineering

*Planning and
Design*

*Pavements,
Materials and
Control of Quality*

***First published in
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