

Read Free Principle Of
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Chakroborty

Principle Of Transportation Engineer Partha Chakroborty

"This book of research chapters

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explores the technology, uses,
and implementation of genetic
programming and algorithms
across multiple industries
creating a fundamental
understanding of this technology,
and how genetic programming

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and algorithms are implemented in fields such as healthcare, engineering, social sciences, computer science and more"--
Advanced Knitting Technology provides complete coverage of the latest innovations and

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developments in knitting technology, including emerging methods as well as the latest best practice for classical processes. Many technologies can be used for the production of cloth such as weaving, knitting,

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nonwoven, and braiding. Knitting methods are being selected for a growing range of applications due to the spectacular properties of knitted fabric, such as softer tactile quality, higher stretchability, bulkiness, and

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functional properties that compare favorably with other woven fabrics. Beyond the well-known apparel applications, specially designed knitted structures are uniquely suitable for high performance

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applications like reinforcement for composites, medical implants, and geotextiles. This book presents recent advances in knitting technology, including structures, properties and applications of knitted fabrics in

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modern apparel, activewear, composites, medical textiles, and geotextiles. With reference to the latest industry practice, testing, quality and process control methods for knitting technologies are discussed. Advanced

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Knitting Technology covers recent advances in knitting technology, properties and performance of knitted structures, their applications in apparel and technical fields. Provides detailed and practical

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instructions for the sustainable production of knitted textiles, including sustainable chemical processing natural dyeing processes, and sustainability analysis methods Draws on the latest research to discuss the

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future of knitted apparels and
high-tech applications of knitted
structures as technical textiles
Explores the latest applications
of AI and machine learning to the
knitting process
Over the time, Intelligent

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Transport System (ITS) has become important for any country not only for traffic congestion management, but also for modern infrastructure and safety. Since there is a dearth of literature on this

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subject, this book attempts to fill the gap and provides a holistic work on ITS encompassing theory, examples and case studies on various facets in both road and railway sectors. The basic principles of various

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technologies used for ITS have been explained in such a manner that students from non-technical background can also comprehend them with ease. It also discusses the emerging technologies such as

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autonomous vehicles, electric vehicles, cooperative vehicle highway system, automated highway systems, 5G mobile technology, etc. Considering the need of huge funds required for ITS implementation, the text

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provides various funding options available. Conclusively, it is a unique book that contains all aspects of ITS which a student of engineering is expected to know. The book is intended as a text for postgraduate students of

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transportation engineering and as a reference book for professionals such as transport planners, town planners, traffic engineers, transit operators and consultants. Key Features, • ITS architecture with a number of

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case studies based on real-life situation • Concept of smart city, importance of advanced transport system, and applications of ITS technologies in smart cities • ITS in Rail sector—intelligent trains, train

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control systems and intelligent
train maintenance practices •

Chapter-end questions for
practice and bibliography

Outlines the concept and
principles of water harvesting for
groundwater management for an

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international audience, and looks at the positives and negatives surrounding water harvesting technologies This book is the first to fully outline the concept and principles of water harvesting for groundwater

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management for a global audience. It offers guidance to academics, students and researchers on effective water harvesting approaches for groundwater recharge, and educates them on the risks

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associated with managed aquifer recharge, as well as the causes of success or failure of particular management strategies, and demand management strategies and tools. The book is helpful to water managers, administrators,

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and professionals, to make decisions to allocate resources; developing innovative cost-effective measures and approaches to achieve demand-supply balance. The book provides readers with an

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overview of the historical evolution of water harvesting for groundwater recharge. It looks at the benefits and gaps in knowledge, their implementation and funding strategies, and public participation. It also

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assesses the strengths,
weaknesses, opportunities, and
threats (SWOT) of water
harvesting technologies. Water
Harvesting for Groundwater
Management: Issues,
Perspectives, Scope and

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Challenges offers chapters covering: issues on water harvesting and water security; mega-trends that impact water security; groundwater occurrence, availability, and recharge-ability; phases of water

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harvesting systems; SWOT
analysis of water harvesting
systems; case studies and short
examples of implementing water
harvesting; scope of water
harvesting for GWM strategies;
guidelines to make water

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harvesting helpful and
meaningful for GWM; and more.
Summarizes the theories and
applications of water harvesting
for groundwater management for
a world audience Offers
guidance on effective water

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harvesting approaches for
groundwater recharge, managed
aquifer recharge, and successful
water management strategies
Evaluates the strengths,
weaknesses, opportunities and
threats (SWOT) of water

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harvesting technologies Part of
the Challenges in Water
Management series Water
Harvesting for Groundwater
Management: Issues,
Perspectives, Scope and
Challenges is an excellent

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resource for water management professionals working with water harvesting technologies, and will be of great interest to water managers, administrators, professionals, academics and researchers working in water

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management.

New Subaltern Politics

Civil Society

Reconceptualizing Hegemony
and Resistance in Contemporary
India

Proceedings of CTRG 2017

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An Introduction to Traffic Flow
Theory

Polarons

Fully revised, second
edition bringing
trainees and physicians
fully up to date with

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the latest developments
and rapidly changing
concepts in the field of
paediatrics.

This book, "Multilayer
Thin Films-Versatile
Applications for

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Materials Engineering",
includes thirteen
chapters related to the
preparations,
characterizations, and
applications in the
modern research of

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materials engineering.

The evaluation of
nanomaterials in the
form of different
shapes, sizes, and
volumes needed for
utilization in different

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kinds of gadgets and devices. Since the recently developed two-dimensional carbon materials are proving to be immensely important for new configurations

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in the miniature scale
in the modern
technology, it is
imperative to innovate
various atomic and
molecular arrangements
for the modifications of

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structural properties.
Of late, graphene and
graphene-related
derivatives have been
proven as the most
versatile two-
dimensional

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nanomaterials with superb mechanical, electrical, electronic, optical, and magnetic properties. To understand the in-depth technology, an effort

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has been made to explain
the basics of nano
dimensional materials.
The importance of nano
particles in various
aspects of nano
technology is clearly

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indicated. There is more than one chapter describing the use of nanomaterials as sensors. In this volume, an effort has been made to clarify the use of

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such materials from non-conductor to highly conducting species. It is expected that this book will be useful to the postgraduate and research students as

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this is a
multidisciplinary
subject.

This book contains a
number of papers
presented at a workshop
organised by the World

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Bank in 1997 on the
theme of 'Social
Capital: Integrating the
Economist's and the
Sociologist's
Perspectives'. The
concept of 'social

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capital' is considered through a number of theoretical and empirical studies which discuss its analytical foundations, as well as institutional and

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statistical analyses of the concept. It includes the classic 1987 article by the late James Coleman, 'Social Capital in the Creation of Human Capital', which formed

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the basis for the development of social capital as an organising concept in the social sciences.

Unlike the West, India presents a fascinating

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example of a society
where the pre-modern
continues to co-exist
with the modern.

Modernity in Indian
Social Theory explores
the social variance

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between India and the West to show how it impacted their respective trajectories of modernity. A.

Raghuramaraju argues that modernity in the

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West involved
disinheriting the pre-
modern, and temporal
ordering of the
traditional and modern.
It was ruthlessly
implemented through

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programmes of industrialization, nationalism, and secularism. This book underscores that India did not merely the Western model of

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modernity or experience
a temporal ordering of
society. It situates
this sociological
complexity in the
context of the debates
on social theory. The

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author critically
examines various
discourses on modernity
in India, including
Partha Chatterjee's
account of Indian
nationalism; Javeed

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Alam's reading of Indian secularism; the use of the term pluralism by some Indian social scientists; and Gopal Guru's emphasis on the lived Dalit experience.

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He also engages with the readings on key thinkers including Vivekananda, Aurobindo, Gandhi, and Ambedkar.

Nonlinear Dynamics and
Chaos

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Metal-Organic Frameworks
(MOFs) for Environmental
Applications

8th International
Conference, SEAL 2010,
Kanpur, India, December
1-4, 2010, Proceedings

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Defining Customer-
centered Systems

Principles, Practice and
Design of Highway

Engineering

Water, Wastewater, and
Stormwater

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Infrastructure
Management, Second
Edition

The writing of history in India has been fraught with controversies. From the storm over textbooks in the 1970s, and the furore over the Babri Masjid in the 1990s,

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to the flaring up of religious sentiments over 'beef-eating' and the Ram Sethu, this book provides a synoptic view of teaching and writing of history in post-colonial India. Michael Gottlob explores historical research and teaching as important components contributing to the development of a national identity and

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ideas of citizenship in post-colonial India. He shows how the urge to decolonize and recover the self has given rise to several approaches that attempt to 'reclaim' Indian history from its colonial past. The book discusses diverse areas like methodological research and public use of history; cultural identity and diversity;

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nationalism and communalism; and social movements and deconstructs their far-reaching implications in contemporary India. It also examines the role of women, Dalits, and Adivasis to understand their position in the multicultural reality of India.

In two editions spanning more than a

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decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has grown into a set of six books carefully focused on specialized areas or fields of

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study. Each one represents a concise yet definitive collection of key concepts, models, and equations in its respective domain, thoughtfully gathered for convenient access. Combined, they constitute the most comprehensive, authoritative resource available. Circuits, Signals, and Speech and Image Processing

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presents all of the basic information related to electric circuits and components, analysis of circuits, the use of the Laplace transform, as well as signal, speech, and image processing using filters and algorithms. It also examines emerging areas such as text to speech synthesis, real time processing, and embedded signal

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processing. Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar delves into the fields of electronics, integrated circuits, power electronics, optoelectronics, electromagnetics, light waves, and radar, supplying all of the basic information required for a deep

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understanding of each area. It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics. Sensors, Nanoscience, Biomedical Engineering, and Instruments provides thorough coverage of sensors, materials and nanoscience, instruments

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and measurements, and biomedical systems and devices, including all of the basic information required to thoroughly understand each area. It explores the emerging fields of sensors, nanotechnologies, and biological effects. Broadcasting and Optical Communication Technology explores communications,

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information theory, and devices, covering all of the basic information needed for a thorough understanding of these areas. It also examines the emerging areas of adaptive estimation and optical communication. Computers, Software Engineering, and Digital Devices examines digital and logical devices,

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displays, testing, software, and computers, presenting the fundamental concepts needed to ensure a thorough understanding of each field. It treats the emerging fields of programmable logic, hardware description languages, and parallel computing in detail. Systems, Controls, Embedded Systems, Energy, and

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Machines explores in detail the fields of energy devices, machines, and systems as well as control systems. It provides all of the fundamental concepts needed for thorough, in-depth understanding of each area and devotes special attention to the emerging area of embedded systems. Encompassing the work of the world's

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foremost experts in their respective specialties, The Electrical Engineering Handbook, Third Edition remains the most convenient, reliable source of information available. This edition features the latest developments, the broadest scope of coverage, and new material on nanotechnologies, fuel cells, embedded

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systems, and biometrics. The engineering community has relied on the Handbook for more than twelve years, and it will continue to be a platform to launch the next wave of advancements. The Handbook's latest incarnation features a protective slipcase, which helps you stay organized without overwhelming your

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bookshelf. It is an attractive addition to any collection, and will help keep each volume of the Handbook as fresh as your latest research.

6%acceptancerateandshortpapersaddanot
her13.

A distinctive introduction to the principles governing polaron science for

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experimental and theoretical graduate students and researchers.

Contextual Design

History and Possibilities

With Applications to Physics, Biology,
Chemistry, and Engineering

Versatile Applications for Materials
Engineering

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Indian National Bibliography

This book is designed to serve as a comprehensive text for undergraduate as well as first-year master ' s students of civil engineering in India. Now, in the second edition, the book incorporates a thorough revision and extension of topics covered in the previous edition. In order to keep the

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treatment focused, the emphasis is on roadways (highways) based transportation systems. SALIENT FEATURES OF THE BOOK

- Analysis of characteristics of vehicles and drivers that affect traffic and design of traffic facilities.
- Principles of road geometry design and how to lay a road.
- Characterization and analysis of flows on

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highways, unsignalized and signalized intersections, toll plazas, etc. • Design principles for traffic facilities. • Engineering characteristics of pavement materials. • Structural analysis and design of highway pavements. • Principles of pavement design with special reference to the Indian conditions. • Evaluation and maintenance

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of highways. HIGHLIGHTS OF THE SECOND EDITION • Incorporates the latest and up-to-date information on the topics covered. • Includes a large number of figures, tables, worked-out examples, and exercises highlighting practical engineering design problems. • Elaborates text by introducing new sections on Continuum

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Models of Traffic Flow, Traffic Flow at Toll Plazas, Determination of Critical Gap, Occlusion of Signs, Fleet Allocation, Vehicle and Crew Assignment, Elastic Solution of Layered Structures, Analysis of Concrete Pavement Structures, Functional Evaluation of Pavements, Highway Economics and Finance, etc. in respective chapters.

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This comprehensive handbook presents fundamental aspects, fabrication techniques, introductory materials on microbiology and chemistry, measurement techniques, and applications of microfluidics and nanofluidics. The second volume focuses on topics related to experimental and numerical methods. It also covers fabrication and

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applications in a variety of areas, from aerospace to biological systems. Reflecting the inherent nature of microfluidics and nanofluidics, the book includes as much interdisciplinary knowledge as possible. It provides the fundamental science background for newcomers and advanced techniques and concepts for experienced

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researchers and professionals.

Boasting chapters written by leading international experts, Nanostructured and Advanced Materials for Fuel Cells provides an overview of the progress that has been made so far in the material and catalyst development for fuel cells. The book covers the most recent developments detailing all

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aspects of synthesis, characterization, and performance. It

Interdisciplinary introduction to transportation engineering serving as a comprehensive text as well as a frequently cited reference for a course in transportation engineering in the Civil Engineering Department.

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Water Harvesting for Groundwater

Management

Social Capital

Transportation Research

History and Politics In Post-Colonial India

PRINCIPLES OF TRANSPORTATION

ENGINEERING

Sustainability Issues in Civil Engineering

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This detailed
introduction to
transportation
engineering is designed
to serve as a
comprehensive text for
under-graduate as well

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as first-year master's
students in civil
engineering. In order to
keep the treatment
focused, the emphasis is
on roadways (highways)
based transportation

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systems, from the
perspective of Indian
conditions.

This textbook is aimed
at newcomers to
nonlinear dynamics and
chaos, especially

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students taking a first
course in the subject.

The presentation
stresses analytical
methods, concrete
examples, and geometric
intuition. The theory is

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developed

systematically, starting
with first-order
differential equations
and their bifurcations,
followed by phase plane
analysis, limit cycles

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and their bifurcations,
and culminating with the
Lorenz equations, chaos,
iterated maps, period
doubling,
renormalization,
fractals, and strange

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attractors.

In today's digital world, the huge amount of data being generated is unstructured, messy, and chaotic in nature. Dealing with such data,

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and attempting to unfold the meaningful information, can be a challenging task.

Feature engineering is a process to transform such data into a

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suitable form that
better assists with
interpretation and
visualization. Through
this method, the
transformed data is more
transparent to the

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machine learning models,
which in turn causes
better prediction and
analysis of results.

Data science is crucial
for the data scientist
to assess the trade-offs

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of their decisions
regarding the
effectiveness of the
machine learning model
implemented.

Investigating the demand
in this area today and

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in the future is a
necessity. The Handbook
of Research on Automated
Feature Engineering and
Advanced Applications in
Data Science provides an
in-depth analysis on

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both the theoretical and
the latest empirical
research findings on how
features can be
extracted and
transformed from raw
data. The chapters will

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introduce feature
engineering and the
recent concepts,
methods, and
applications with the
use of various data
types, as well as

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examine the latest
machine learning
applications on the
data. While highlighting
topics such as
detection, tracking,
selection techniques,

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and prediction models
using data science, this
book is ideally intended
for research scholars,
big data scientists,
project developers, data
analysts, and computer

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scientists along with
practitioners,
researchers,
academicians, and
students interested in
feature engineering and
its impact on data.

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Often dismissed as the
rumblings of "the
street," popular
politics is where
political modernity is
being formed today,
according to Partha

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Chatterjee. The rise of mass politics all over the world in the twentieth century led to the development of new techniques of governing population groups. On

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the one hand, the idea of popular sovereignty has gained wide acceptance. On the other hand, the proliferation of security and welfare technologies has created

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modern governmental
bodies that administer
populations, but do not
provide citizens with an
arena for democratic
deliberation. Under
these conditions,

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democracy is no longer
government of, by, and
for the people. Rather,
it has become a world of
power whose startling
dimensions and unwritten
rules of engagement

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Chatterjee provocatively
lays bare. This book
argues that the rise of
ethnic or identity
politics—particularly in
the postcolonial
world—is a consequence

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of new techniques of
governmental
administration. Using
contemporary examples
from India, the book
examines the different
forms taken by the

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politics of the
governed. Many of these
operate outside of the
traditionally defined
arena of civil society
and the formal legal
institutions of the

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state. This book
considers the global
conditions within which
such local forms of
popular politics have
appeared and shows us
how both community and

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global society have been
transformed.

Chatterjee's analysis
explores the strategic
as well as the ethical
dimensions of the new
democratic politics of

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rights, claims, and
entitlements of
population groups and
permits a new
understanding of the
dynamics of world
politics both before and

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after the events of
September 11, 2001. The
Politics of the Governed
consists of three
essays, originally given
as the Leonard Hastings
Schoff Lectures at

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Columbia University in
November 2001, and four
additional essays that
complement and extend
the analyses presented
there. By combining
these essays between the

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**covers of a single
volume, Chatterjee has
given us a major and
urgent work that
provides a full
perspective on the
possibilities and limits**

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of democracy in the
postcolonial world.

The Electrical

Engineering Handbook -

Six Volume Set, Third

Edition

INTELLIGENT TRANSPORT

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SYSTEMS

**Partha's Fundamentals of
Pediatrics**

**The Politics of the
Governed**

**Fabrication,
Implementation, and**

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Applications

A Multifaceted

Perspective

Contextual design is a state-of-the-art approach to designing products directly from an understanding of

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**how the customer works
and what the customer
needs. Based on a method
developed and taught by
the authors, this is a
practical, hands-on guide
that articulates the**

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**underlying principles of
contextual design and
shows how to use them to
address different problems,
constraints, and
organizational situations.
This book on Highway**

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**Engineering shall be useful
for B.E./B.Tech & M.E/
M.Tech students of Civil
Engineering. It shall also be
useful for practicing
Engineering and designers.
Urban water services are**

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building blocks for healthy cities, and they require complex and expensive infrastructure systems. Most of the infrastructure is out of sight and tends to be taken for granted, but

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**an infrastructure financing
crisis looms in the United
States because the systems
are aging and falling
behind on maintenance. A
road map for public works
and utility professionals,**

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**Water, Wastewater, and
Stormwater Infrastructure
Management, Second
Edition provides clear and
practical guidance for life-
cycle management of water
infrastructure systems.**

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**Grounded in solid
engineering and business
principles, the book
explains how to plan,
budget, design, construct,
and manage the physical
infrastructure of urban**

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**water systems. It blends
knowledge from
management fields such as
facilities, finance, and
maintenance with
information about the
unique technical attributes**

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**of water, wastewater, and
stormwater systems.**

**Addresses how to make a
business case for
infrastructure funding**

**Demonstrates how to apply
up-to-date methods for**

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**guide, this unique book
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infrastructure New design
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Civil society is one of the most used - and abused - concepts in current political thinking. In this important collection of

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essays, the concept is
subjected to rigorous analysis
by an international team of
contributors, all of whom seek
to encourage the historical
and comparative
understanding of political

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thought. The volume is divided into two parts: the first section analyses the meaning of civil society in different theoretical traditions of Western philosophy. In the second section, contributors consider

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the theoretical and practical contexts in which the notion of civil society has been invoked in Asia, Africa and Latin America. These essays demonstrate how an influential Western idea like civil society

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is itself altered and
innovatively modified by the
specific contexts of
intellectual and practical life in
the societies of the South.

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Engineering. Also for
Practising Engineering and
Designers

This unique book presents
comprehensive and in-depth
coverage of traffic
engineering. KEY TOPICS It

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discusses all modern topics in traffic engineering, including design, construction, operation, maintenance, and system. For anyone involved in traffic studies, engineering, analysis, and control and

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operations.

This book presents selected papers from the 4th Conference of the Transportation Research Group of India. It provides a comprehensive analysis of

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themes spanning the field of transportation encompassing economics, financial management, social equity, green technologies, operations research, big data analysis, econometrics and

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structural mechanics. This volume will be of interest to researchers, educators, practitioners, managers, and policy-makers world-wide. Handbook of Research on Automated Feature

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Applications in Data Science

Analysis of Pavement
Structures

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TRANSPORTATION

PLANNING

Multilayer Thin Films

**Economics has the capacity to
offer us deep insights into some of
the most formidable problems of
life, and offer solutions to them**

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too. Combining a global approach with examples from everyday life, Partha Dasgupta describes the lives of two children who live very different lives in different parts of the world: in the Mid-West USA and in Ethiopia. He

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compares the obstacles facing them, and the processes that shape their lives, their families, and their futures. He shows how economics uncovers these processes, finds explanations for them, and how it forms policies

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**and solutions. Along the way,
Dasgupta provides an intelligent
and accessible introduction to key
economic factors and concepts
such as individual choices,
national policies, efficiency,
equity, development,**

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**sustainability, dynamic
equilibrium, property rights,
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highly readable.

**This text provides a
comprehensive and concise
treatment of the topic of traffic
flow theory and includes several
topics relevant to today's highway
transportation system. It provides**

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the fundamental principles of traffic flow theory as well as applications of those principles for evaluating specific types of facilities (freeways, intersections, etc.). Newer concepts of Intelligent transportation systems (ITS) and

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their potential impact on traffic flow are discussed. State-of-the-art in traffic flow research and microscopic traffic analysis and traffic simulation have significantly advanced and are also discussed in this text. Real

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**world examples and useful
problem sets complement each
chapter. This textbook is meant
for use in advanced
undergraduate/graduate level
courses in traffic flow theory with
prerequisites including two**

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**semesters of calculus, statistics,
and an introductory course in
transportation. The text would
also be of interest to
transportation professionals as a
refresher in traffic flow theory, or
as a reference. Students and**

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**engineers of diverse backgrounds
will find this text accessible and
applicable to today's traffic
issues.**

**This compilation on sustainability
issues in civil engineering
comprises contributions from**

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**international experts who have
been working in the area of
sustainability in civil engineering.
Many of the contributions have
been presented as keynote lectures
at the International Conference
on Sustainable Civil**

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**Infrastructure (ICSCI) held in
Hyderabad, India. The book has
been divided into core themes of
Sustainable Transportation
Systems, Sustainable Geosystems,
Sustainable Environmental and
Water Resources and Sustainable**

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Structural Systems. Use of sustainability principles in engineering has become an important component of the process of design and in this context, design and analysis approaches in civil engineering

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**are being reexamined to
incorporate the principles of
sustainable designs and
construction in practice.**

**Developing economies are on the
threshold of rapid infrastructure
growth and there is a need to**

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compile the developments in various branches of civil engineering and highlight the issues. It is this need that prompted the composition of this book. The contents of this book will be useful to students,

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**professionals, and researchers
working on sustainability related
problems in civil engineering. The
book also provides a perspective
on sustainability for practicing
civil engineers who are not
directly researching the problems**

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but are affected by the concerns in the course of their profession. The book can also serve to highlight to policy makers and governing bodies the need to have a mandate for sustainable infrastructural development.

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"This volume builds upon a series of conference panels and workshops that were organized between 2011 and 2013, in such diverse places as Honolulu, Nottingham and Bergen"--Acknowledgements.

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**Chemistry, Physics, and Life
Science Principles**

TRANSPORTATION

PLANNING : PRINCIPLES,

PRACTICES AND POLICIES

**Transportation Engineering and
Planning**

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**Fundamentals of Hydraulic
Dredging**

Advanced Knitting Technology

**Research Anthology on Multi-
industry Uses of Genetic**

Programming and Algorithms

Metal-Organic Frameworks for

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Environmental Applications examines this important topic, looking at potential materials and methods for the remediation of pressing pollution issues, such as heavy-metal contaminants in water streams, radioactive waste disposal, marine oil-spillage, the treatment of textile and dye industry effluents, the clean-up of trace

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amounts of explosives in land and water, and many other topics. This survey of the cutting-edge research and technology of MOFs is an invaluable resource for researchers working in inorganic chemistry and materials science, but it is also ideal for graduate students studying MOFs and their applications. Examines

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the applications of metal-organic frameworks for the remediation of environmental pollutants Features leading experts who research the applications of MOFs from around the world, including contributions from the United States, India and China Explores possible solutions to some of today's most pressing

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environmental challenges, such as heavy-metal contamination in bodies of water, oil spills and clean-up of explosives hidden in land and water Provides an excellent reference for researchers and graduate students studying in the areas of inorganic chemistry, materials chemistry and environmental science

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Transportation planning plays a key role as a lifeline for any society. It comprises applications of science and art, where a great deal of judgment coupled with its technical elements is required to arrive at a meaningful decision in order to develop transportation infrastructure facilities for the community. It, thereby, helps in

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achieving a safer, faster, comfortable, convenient, economical, sustainable and environment-friendly movement of people and goods traffic. In this context, the book has been written, and now updated in the second edition dealing with the basic principles and fundamentals of transportation planning. It also keeps

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abreast of the current techniques practices and policies conducted in transportation planning. Exploiting a systematic approach avoiding prolixity, this book will prove to be a vade mecum for the undergraduate and postgraduate students of civil engineering and transportation engineering. Besides, the book is of

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immense benefit to the students opting a course on Mater of Planning conducted in various institutes. **HIGHLIGHTS OF THE BOOK** • Systematically organised concepts well-supported with ample illustrations • Prodigious illustrative figures and tables • Chapter-end summary helps in grasping the quirk concepts •

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State-of-the-art data garnered in the book presents an updated version • Chapter-end review questions help students to prepare for the examination NEW TO THE SECOND EDITION • Provides Fuzzy Logic, Artificial Neural Network and Neuro Fuzzy Model techniques (Chapter 4) • Incorporates the formation of travel

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demand model with soft computing techniques including trip generation model (Chapter 5) • Provides a practical approach of calibrating Origin Destination Matrix (Chapter 6) • Incorporates the concept of mode choice models with a number of worked-out examples (Chapter 7) • Provides a case study on mobility

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plan of Gandhinagar, Gujarat,
demonstrating the development of all
stages of transport modelling (Chapter 11)

- Includes a new appendix on
"Applications of Soft Computing in Trip
Distribution and Traffic Assignment"

Transportation planning plays a useful role
as a lifeline for any society. It comprises

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applications of science and art, where a great deal of judgement coupled with its technical elements is required to arrive at a meaningful decision in order to develop transportation infrastructure facilities for the community. Transportation planning, thereby, helps in achieving a safer, faster, comfortable, convenient, economical and

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environment-friendly movement of people and goods traffic. In this context, an attempt has been made to write a comprehensive book on this subject, which not only deals with the basic principles and fundamentals of transportation planning but also keeps abreast of the current practices and

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policies conducted in transportation planning. Divided into 23 chapters, the book felicitously proffers the fundamental techniques of transportation planning and travel demand modelling, urban form and urban structure and their relation with transport pattern, land use-transport model, accessibility and mobility

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consideration in transport modelling, graph theory and road network planning, cost benefit analysis, mass transport planning, applications of intelligent transport system, applications of software in transport planning, and transport policies. Exploiting a systematic approach avoiding prolixity, this book will prove to

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be a vade mecum for the undergraduate and postgraduate students of civil engineering and transportation engineering. Besides, this book is of immense benefit to the students opting a course on Master of Planning conducted in various institutes. Highlights of the Book

- Systematically organised concepts well-

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- supported with ample illustrations •
- Prodigious illustrative figures and tables •
- Incorporates chapter-end summary to help in grasping the quirk concepts •
- Presents state-of-the-art data •
- Includes chapter-end review questions to help students prepare for examination

India's Transport System has several

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deficiencies such as inadequate capacity, poor safety record, emission of pollutants and outmoded technology. But as the economy is poised for a big growth in the coming years transportation engineers will have to come up with innovative ideas. The book addresses these issues and it is hoped that the engineering students

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studying transportation engineering will have a clear idea of the problems involved and how they transportation engineering will have a clear idea of the problems involved and how they can be overcome in their professional career.

Microfluidics and Nanofluidics Handbook
Nanostructured and Advanced Materials

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for Fuel Cells

Transportation Engineering

*Predict or Explain the
Pavement Response to Load:
Understand the Physical
Governing Principles
Analysis of Pavement*

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Structures brings together current research and existing knowledge on the analysis and design of pavements. This book provides a platform for the readers to understand

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*the basic principles of
physics and mechanics
involved in pavement
analyses. From Simple to
Complex Formulation: Learn
to Develop Your Own
Research or Field Problems*

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The book introduces load and thermal stress analyses of asphalt and concrete pavement structures in a simple and step-by-step manner. Uniformity of symbol and

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sign conventions have been maintained throughout the book. References are made to more than 300 sources for the interested readers for further reading. The book helps to build

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*confidence in the reader
and allows them to
formulate and solve their
own research or field
problems. Divided into
eight chapters, the
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*Characterization of
various pavement materials
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*Analysis of dynamic
loading conditions*

*Analysis of composite
pavement Reliability*

issues in pavement design

*Inverse problems in
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Analysis of Pavement Structures covers the basic approaches for pavement analysis, and highlights the fundamental principles followed in the analyses of pavement

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*structures through
numerous schematic
diagrams.*

*The Microfluidics and
Nanofluidics Handbook: Two-
Volume Set comprehensively
captures the cross-*

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*disciplinary breadth of
the fields of micro- and
nanofluidics, which
encompass the biological
sciences, chemistry,
physics and engineering
applications. To fill the*

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knowledge gap between engineering and the basic sciences, the editors pulled together key individuals, well known in their respective areas, to author chapters that help

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*graduate students,
scientists, and practicing
engineers understand the
overall area of
microfluidics and
nanofluidics. Topics
covered include Cell Lysis*

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Chip Technology
Electrodics in
Electrochemical Energy
Conversion Systems:
Microstructure and Pore-
Scale Transport Microscale*

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Molecular Models for Gas
Flow and Heat Transfer
Microscopic Hemorheology
and Hemodynamics Covering
physics and transport
phenomena along with life*

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*sciences and related
applications, Volume One:
Chemistry, Physics, and
Life Science Principles
provides readers with the
fundamental science
background that is*

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*required for the study of
microfluidics and
nanofluidics. Both volumes
include as much
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knowledge as possible to
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*nature of this area,
valuable to students and
practitioners.*