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control; and  
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economics. Using  
both customary  
and SI units, each  
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**This overview of the**

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**analysis and design  
of buildings runs  
from basic  
principles and  
elementary  
structural analysis  
to the selection of  
structural systems  
and materials, and  
on to foundations  
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structures. It  
presents a variety of  
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**ELEMENTS OF  
HYDROLOGY AND  
GROUNDWATER  
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construction materials  
behave the way they  
do. It covers the  
construction materials  
content for*

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properties of materials,  
it moves on to more  
complex areas such as  
the theory of concrete  
durability and  
corrosion of steel.*

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scope of traditional,  
emerging, and non-  
structural materials*

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*Explains what material properties such as specific heat, thermal conductivity and electrical resistivity are and how they can be used to calculate the performance of construction materials. Contains numerous worked examples with detailed solutions that provide precise*

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*references to the relevant equations in the text. Includes a detailed section on how to write reports as well as a full section on how to use and interpret publications, giving students and early career professionals valuable practical guidance.*

*In the preparation of*

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*this book, my aim has been to present the text in a sequential and lucid manner, containing all essentials of practical surveying. The book proves to be a valuable source of study to those who are preparing for GATE and other competitive examinations. This book contains Nine*

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*chapters. The most outstanding feature of the book is the condensation of the exhaustive theory into a systematic, point wise pattern and insertions of explanatory notes particularly with reference to the more common surveying operations for easy learning of the*

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*students. A large portion of the material presented in this book has been derived from the work of others . Their contribution is greatly acknowledged. An attempt has been made to also include all the recent developments in the field of surveying.*

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chart, a brief and  
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in AutoCAD program.  
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Surveying Problem  
Solution With Theory  
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**This book  
comprises the  
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***Conference on  
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Science and  
Technology,  
Cochin, Kerala,  
India. The book  
focuses on  
latest research***

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*in different areas of civil engineering and lays special emphasis on sustainable construction practices. It is divided into seven major themes: (i) Modern materials and sustainable construction,*



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**(ii)**

***Environmental  
engineering and  
management,***

**(iii)**

***Geotechnical  
engineering,***

**(iv) *Health,  
safety and***

***environment, (v)***

***Irrigation,  
water resources  
and management,***

**(vi) *Structural***

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***Engineering, and  
(vii)***

***Transportation  
engineering and  
traffic***

***planning. Given  
the range of the  
topics covered,  
this book can be  
useful for  
students,  
scholars and  
professionals  
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sub-disciplines  
of civil  
engineering.  
Primarily aimed  
to be an  
introductory  
text for the  
first course in  
surveying for  
civil,  
architecture and  
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engineering*

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*students, this book, now in its second edition, is also suitable for various professional courses in surveying.*

*Written in a simple and lucid language, this book at the outset, presents a thorough*

***introduction to  
the subject.  
Different  
measurement  
errors with  
their types and  
nature are  
described along  
with measurement  
of horizontal  
distances and  
electronic  
distances  
measurements.***

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*This text covers  
in detail the  
topics in  
levelling,  
angles and  
directions and  
compass survey.  
The functions  
and uses of  
different  
instruments,  
such as  
theodolites,  
tacheometers and*

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***stadia rods are also covered in the text.***

***Besides, the book elaborates different fields of surveying, such as plane table surveying, topographical surveying, construction surveying and underground***

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*surveys.*

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chapter on  
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applications in  
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*Includes about  
400 figures to  
explain the  
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more than 170  
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examples  
including the  
questions  
generated from  
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number of  
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questions from  
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***students of all disciplines. It aims to educate the readers about nature, ecosystems, natural resources, biodiversity, pollution, and the current challenges faced by environmentalists. It***

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*integrates the  
social impact  
associated with  
environmental  
issues through  
national and  
international  
case studies.  
Remote Sensing  
and GIS  
Current Trends  
in Civil  
Engineering  
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Applied  
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considered is  
considered as one  
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subjects for all the engineering students of all branches. The contents of this book are framed in such a way that will be useful to the technocrats who are working on the administrative positions to deal

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with the basic knowledge of civil engineering. The natural disasters are the killer agents which can/can't be predicted even though we have modern technology. Every year, in one place or another,

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disasters striking  
which is  
devastating the  
area and  
surroundings,  
leading to  
ecological  
disruption besides  
huge loss of life and  
property. India is  
vulnerable to  
cyclones, landslides



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/avalanches,  
earthquakes,  
floods, droughts,  
forest fires,  
epidemics, etc. The  
5700-km long coast  
of India, with its  
dense population is  
vulnerable to  
cyclones/low  
depressions,  
tsunamis, etc. The

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2400-km long rugged Himalayan terrain is vulnerable to landslides, avalanches and earthquakes. India is not only vulnerable to natural disasters, it is also experiencing industrial

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accidents. The Bhopal Gas tragedy is one of the major man-made disasters in the world. The state of Andhra Pradesh has 970-km long coastline with two major rivers, etc. The conference is conducted in

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Visakhapatnam, is famous for industries and tourism. Recently, several industrial accidents took place, besides major natural disasters like Hud-Hud, etc. Disaster management shall be implemented

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from the grass root level in vulnerable areas to improve the capacity building, so as to minimize the losses. The capacity building coupled with technology results in reduction of loss of life and property.

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Taken To See That  
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Them Not Only In  
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And Applications

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The book, designed for the postgraduate students of Pure and Applied Geology (M.Sc.) and Hydrology and Groundwater (M.Tech) and undergraduate students of Civil Engineering/Irrigational Engineering/Water Resource



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Groundwater. 2.

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for practice. 3.

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Objective Type

Questions and

Numerical

Problems,

respectively, with a

detailed

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Engineering is designed to enrich the preliminary conceptual knowledge about civil engineering to the students of non-civil branches of engineering. The coverage includes materials for construction,

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easiest to  
understand, and  
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brings together  
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been reorganized  
and streamlined to  
align tightly with  
current surveying  
practice, and to  
teach more rapidly  
and efficiently. It  
adds broader and  
more valuable  
coverage of aerial,

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A Guide for  
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Students

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OF SURVEYING

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Engineering IV

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Theory And  
Applications  
Involved In Higher  
Surveying. It Also  
Highlights Some Of  
The Modern  
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Triangulation And  
Trilateration, The  
Book Describes The  
Various Adjustment  
Methods Applied To  
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Measurement In  
Detail, Which Is

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Followed By  
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Hydrographic,  
Construction, And  
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Engineers And  
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Knowledge Of  
Determining  
Absolute  
Coordinates Of  
Points And

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Busan, South Korea

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continues to  
highlight the  
relationship  
between the  
fundamental and  
applied research,  
respectively the  
technological

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transfer in the fields  
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