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This book presents select papers from the International Conference on Smart Materials and Techniques for Sustainable Development (SMTS) 2019. The contents focus on a wide range of methods and techniques related to sustainable development fields like smart structures and materials, innovation in water resource development, optical fiber communication, green construction materials,

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optimization and innovation in structural design, structural dynamics and earthquake engineering, structural health monitoring, nanomaterials, nanotechnology and sensors, smart biomaterials and medical devices, materials for energy conversion and storage devices, and IoT in sustainable development. This book aims to provide up-to-date and authoritative knowledge from both industrial and academic worlds, sharing best practice in the field of smart materials analysis. The contents of this book will be beneficial to students, researchers, and

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professionals working in the field of smart materials and sustainable development. Sustainable Construction Materials: Recycled Aggregate focuses on the massive systematic need that is necessary to encourage the uptake of recycled and secondary materials (RSM) in the construction industry. This book is the fifth and the last of the series on sustainable construction materials and like the previous four, it is also different to the norm. Its uniqueness lies in using the newly developed, Analytical Systemisation Method, in

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building the data-matrix sourced from 1413 publications, contributed by 2213 authors from 965 institutions in 67 countries, from 1977 to 2018, on the subject of recycled aggregate as a construction material, and systematically analysing, evaluating and modelling this information for use of the material as an aggregate concrete and mortar, geotechnics and road pavement applications. Environmental issues, case studies and standards are also discussed. The work establishes what is already known and can be used to further progress the use of

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sustainable construction materials. It can also help to avoid repetitive research and save valuable resources. The book is structured in an incisive and easy to digest manner and is particularly suited for researchers, academics, design engineers, specifiers, contractors, and government bodies dealing with construction works. Provides an exhaustive and comprehensively organized list of globally-based published literature spanning 5000 references Offers an analysis, evaluation, repackaging and modeling of existing knowledge that encourages more

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responsible use of waste materials Provides a wealth of knowledge for use in many sectors relating to the construction profession, including academia, research, practice and adoption of RSM Handbook of Civil Engineering Waste Water Engineering Comprehensive Elements of Civil Engineering SMTS-II Theory of Structures Smart Technologies for Sustainable Development **Basics of Civil Engineering addresses various aspects of civil engineering field.**

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5.Doubly reinforced beams 6. T
and L-Beams 7.Design of beams
and Slabs 8.Design of stair cases
9.Reinforced brick and hollow tile
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11.Circular slabs 12.Flat slabs
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14.Combined direct and bending
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28. Portal frames 29. Building
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30. Aqueducts and box culverts
31. Concrete Bridges Part V: Limit
State Design 32. Design concepts
33. Singly reinforced section
34. Doubly reinforced sections
35. T and L-Beams 36. Shear bond
and torsion 37. Design of beams
and slabs 38. Axially loaded
columns 39. Columns with
Uniaxial and Biaxial bending
40. Design of stair cases 41. Two
way slabs 42. Circular slabs**

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**43.Yield Line theory and design of
slabs 44.Foundations Part**

**IV:Prestressed concrete and
Miscellaneous Topics**

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**46.Shrinkage and creep 47.Form-
Work 48.Tests for cement and
concrete**

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Structures

***REPAIR AND REHABILITATION
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***A basic Concept of Civil
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Basic Civil Engineering

★**ABOUT THE BOOK:** The basic aim of the seventeenth edition of *Surveying, Volume-I*, is the same as that of the earlier editions, namely, to present the fundamentals of the subject in a simplified manner and to illustrate the basic concepts in a simple and lucid language so that even a beginner can understand it. A large number of worked examples and figures have been given to illustrate the basic theories. The subject matter has been revised wherever necessary to make some of

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the basic concepts more clear and understandable. A few new problems and examples have been added.

Some of the old figures have been replaced by new ones. Either colored plates of the surveying instruments have been added as an appendix.

These plates and figures are useful for making the subject matter more illustrative. ★OUTSTANDING

FEATURES: -E.D.M., Total Station & G.P.S. are included separately -All the text has been explained in a simple, lucid language -SI Units used in the entire book -This book will be useful for Degree/Diploma/A.M.I.E. students and equally useful to the field engineers and surveyors

-Number of problems have been solved in details -Subject matter is

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supported by very good diagrams
-Either colored plates of the
surveying instruments have been
added as an appendix.

★**RECOMMENDATIONS: A**
textbook for all Engineering
Branches, Competitive Examination,
ICS, and AMIE Examinations

★**ABOUT THE AUTHOR: Dr. K.R.**
ARORA B.E. (Civil), M.E. (Hons),
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**The field of Concrete Repair and
Rehabilitation is gaining importance
in view of its positive impacts in
terms of socio-economic benefits and
environmental sustainability. Due to
growing importance of this field,
many engineering colleges have
included the subject of concrete
repair and rehabilitation in the
senior undergraduate and**

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postgraduate course curriculums of civil engineering. This book is an earnest attempt to help students of civil engineering in enhancing their understanding and awareness about critical elements of repair and rehabilitation of concrete structure. The content is organised in such a way that it fulfils the academic needs of the students. This text attempts to dovetail all important aspects such as causes of distress, assessment and evaluation of deterioration, techniques for repair and rehabilitation along with selection of repair and rehabilitation materials and other important aspects related to preventive maintenance and rehabilitation/structural safety measures. The primary objective of

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this textbook is to guide students to:

- **Understand the underlying causes and types of deterioration in concrete structure**
- **Learn about the field and laboratory testing methods available to evaluate the level of deterioration.**
- **Get well acquainted with options of repair materials and techniques available to address different types of distress in concrete structure.**
- **Grasp the knowledge of available techniques and their application for strengthening existing structural systems.**

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**Journal of Interdisciplinary Science
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Answering Is Illustrated
Clearly. Care Has Been**

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Basic knowledge in civil

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engineering - book of 59 topics consists of history of civil engineering, building bye laws, bricks estimation, unit conversions, quantity of materials for concrete work, vastu etc. The main aim of writing this book is to provide basic knowledge in civil engineering for the students by analyzing pictures and diagrams to get practical knowledge

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engineering competitive examinations. It aids in fast revision through key notes such as terms, definitions and formulae. The series also provides conceptual clarity to ease in attempting questions. A vast collection of questions has been categorized under two levels? questions for practice and previous years? questions of various PSU examinations to give you a feel of the actual exam. Features ? Theory and key concepts in a systematical manner ? Ample number of MCQs for practice in each chapter ? Previous years? questions to familiarize you with the pattern and level

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professors and students for
their valuable suggestions
and recommending the
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Basic Civil 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, building construction, basic surveying and other major topics like environmental engineering, geo-technical engineering, transport traffic and urban engineering, irrigation & water supply engineering and CAD.

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Expansive Soils Including
Certain Widespread Myths,
Find A Place In The
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Over 160 Fully Solved
Examples, Which Are
Designed To Illustrate The
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Principles Of Soil
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Situations. Extensive Use
Of Si Units, Side By Side
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Mechanics of Materials
Sustainable Construction
Materials
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Surveying: V. 2