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irrigation engineering and hydraulic structures comprehensively deals with all aspects of irrigation in india soil moisture and different types of irrigation systems including but not limited to sprinkler tubewell canal and micro irrigation the book also focuses on engineering hydrology dams water power engineering as well as irrigation water management special care has been taken to highlight the principles practices and design procedures that have been widely recommended as well as suggest improvements in the application of existing methods and adoption of latest techniques used in other parts of the world

the first edition of this treatise on irrigation engineering duly subsidised by national book trust government of india published in 1984 was highly acclaimed by the engineering teachers and taughts and its revised edition appeared in 1990 the dynamism inherent in the subject necessitated drastic changes in the text prompted by theoverwhelming response of irrigation and agriculture engineering students and practising engineers in the country and abroad duly patronised by the publications shri ravindra kumar gupta managing director s chand company ltd new delhi

this concise handbook has been prepared keeping in view mainly the requirements of practising civil engineers with all the essential of a useful concise handbook such as the latest design formulae graphs diagrams and tables etc to solve day to day work problems these details have been adopted mostly from the national building code the book will be equally helpful to civil engineering students and teachers

the handbook of applied hydrologic and water resources engineering examines the planning and design of water supply systems

flood control works drought mitigation measures navigation facilities and hydraulic structures as well as feasibility and environmental impact studies for various water related projects it is based on the experience gained through consultancy in dealing with various water resources issues and problems teaching and research it serves as a useful resource for graduate students and faculty members in civil engineering agricultural engineering and water resources engineering as well as practicing engineers working in civil environmental and agricultural fields

engineering has been an aspect of life since the beginnings of human existence the earliest practice of civil engineering may have commenced between 4000 and 2000 bc in ancient egypt the indus valley civilization and mesopotamia ancient iraq when humans started to abandon a nomadic existence creating a need for the construction of shelter during this time transportation became increasingly important leading to the development of the wheel and sailing civil engineering is the application of physical and scientific principles for solving the problems of society and its history is intricately linked to advances in the understanding of physics and mathematics throughout history because civil engineering is a broad profession including several specialized sub disciplines its history is linked to knowledge of structures materials science geography geology soils hydrology environmental science mechanics project management and other fields throughout ancient and medieval history most architectural design and construction was carried out by artisans such as stonemasons and carpenters rising to the role of master builder knowledge was retained in guilds and seldom supplanted by advances structures roads and infrastructure that existed were repetitive and increases in scale were incremental the purpose of this textbook is to present an introduction to the subject of basics of civil engineering of bachelor of engineering be semester i the book contains the syllabus from basics of the subjects going into the intricacies of the subjects students are now required to solve minimum four 4 assignments based on the syllabus each topic is followed by assignment questions which now forms the compulsory part of internal assessment all the concepts have been explained with relevant examples and diagrams to make i t interesting for the readers an attempt is made here by the experts of tmc to assist the students by way of providing study text as per the curriculum with non commercial considerations we owe to many websites and their free contents we

would like to specially acknowledge contents of website wikipedia com and various authors whose writings formed the basis for this book we acknowledge our thanks to them at the end we would like to say that there is always a room for improvement in whatever we do we would appreciate any suggestions regarding this study material from the readers so that the contents can be made more interesting and meaningful readers can email their queries and doubts to tmcnagpur gmail com we shall be glad to help you immediately dr mukul burghate author

geology is the science of earth's crust lithosphere consisting of rocks and soils while mining and mineralogical engineers are more interested in rocks their petrology formation and mineralogy civil engineers are equally interested in soils and rocks in their formations and also in their properties for civil engineering design and construction this book is so written that the subject can easily be taught by a civil engineering faculty member specialised in soil mechanics dexterously organized into four parts this book in part i chapters 1 to 11 deals with the formation of rocks and soils the classification of soils lake deposits coastal deposits wind deposits along with marshes and bogs are described in part ii chapters 12 to 20 as the book advances it deals with the civil engineering problems connected with soils and rocks such as landslides rock slides mudflow earthquakes tsunami and other natural phenomena in part iii chapters 21 to 24 finally in part iv chapters 25 to 30 this text discusses the allied subjects like the origin and nature of cyclones rock mass classification and soil formation designed to serve as a textbook for the undergraduate students of civil engineering this book is equally useful for the practising civil engineers salient features displays plenty of figures to clarify the concepts includes chapter end review exercises to enhance the problem solving skills of the students summary at the end of each chapter brings into focus the essence of the chapter appendices at the end of the text supply extra information on important topics

the most authentic source of information on higher education in india the handbook of universities deemed universities colleges private universities and prominent educational research institutions provides much needed information on degree and diploma awarding universities and institutions of national importance that impart general technical and professional education in india

although another directory of similar nature is available in the market the distinct feature of the present handbook that makes it one of its kind is that it also includes entries and details of the private universities functioning across the country in this handbook the universities have been listed in an alphabetical order this facilitates easy location of their names in addition to the brief history of these universities the present handbook provides the names of their vice chancellor professors and readers as well as their faculties and departments it also acquaints the readers with the various courses of studies offered by each university it is hoped that the handbook in its present form will prove immensely helpful to the aspiring students in choosing the best educational institution for their career enhancement in addition it will also prove very useful for the publishers in mailing their publicity materials even the suppliers of equipment and services required by these educational institutions will find it highly valuable

modern irrigation techniques opens the door to new and improved ways of irrigating lands aiming to increase productivity and enhance farmers lives we address the challenges of conventional irrigation methods present day vulnerabilities and current trends using case studies to bridge theory with real world applications our book delves into factors affecting crop irrigation such as soil climate and resource availability providing comprehensive knowledge on modern irrigation technologies we ensure that equations and formulas are easy to understand and apply practically covering a broad range of topics we guide readers through the intricacies of irrigation systems and their effective management this book is not only about irrigation technologies but also about making your setup successful with a focus on practicality and compatibility with readers thoughts this book provides valuable insights for better irrigation practices

the book provides primary information about civil engineering to both a civil and non civil engineering audience in areas such as construction management estate management and building basic civil engineering topics like surveying building materials construction technology and management concrete technology steel structures soil mechanics and foundations water resources transportation and environment engineering are explained in detail codal provisions of us uk and india are included to cater to a

global audience insights into techniques like modern surveying equipment and technologies sustainable construction materials and modern construction materials are also included key features provides a concise presentation of theory and practice for all technical in civil engineering contains detailed theory with lucid illustrations focuses on the management aspects of a civil engineer s job addresses contemporary issues such as permitting globalization sustainability and emerging technologies includes codal provisions of us uk and india the book is aimed at professionals and senior undergraduate students in civil engineering non specialist civil engineering audience

dive into the essential world of water management with our comprehensive guide advanced irrigation and drainage techniques crafted for undergraduate students specializing in civil and agricultural engineering this book provides a foundational understanding of the intricate dynamics of irrigation and drainage systems in agriculture our guide systematically explores essential principles methodologies and applications in the field it begins by establishing a robust understanding of the soil water plant relationship and builds upon hydraulic principles and water conveyance systems you ll learn to design efficient and sustainable irrigation systems that optimize agricultural productivity the book also covers drainage engineering offering insights into mitigating excess water preventing soil erosion and ensuring the long term health of agricultural landscapes what sets our book apart is its commitment to bridging theory and practice with real world case studies and examples from diverse agricultural settings within the united states we enrich the learning experience enabling students to apply their knowledge to practical scenarios aspiring engineers will find not just a textbook but a roadmap for shaping the future of sustainable agriculture with a focus on practical relevance and application this book empowers students to become adept problem solvers and stewards of water resources ensuring a resilient and sustainable agricultural landscape for generations to come

this book consists of ten chapters describing advanced research on thermal and photovoltaic application of solar energy thermal applications includes direct solar dryer for conversion of grapes into raisins with temperature control design and analysis of solar

water pumping system thermal comfort for office institute buildings based on carbse tool and industrial waste water treatment using natural filtration and solar distillation methods photovoltaic research includes experimental study of electrical outputs for air blower cleaned water cleaned and unclean solar pv panels design development and experimental study of solar pv air cooler design and implementation of mppt based boost converter topology for photovoltaic system a novel pid using a genetic algorithm to track the maximum power point of the pv system photovoltaic generation system and grid source connected to load using qz source control and management of a photovoltaic system equipped with a storage battery

material science and environmental engineering presents novel and fundamental advances in the fields of material science and environmental engineering collecting the comprehensive and state of art in these fields the contributions provide a broad overview of the latest research results so that it will proof to be a valuable reference book to aca

in the hustle to make career that is regulated by society most give up on their dreams and passions but for k kohli writing was a compulsion not a choice that s how passion manifests it s like the mountain course of the river that forces its way through the roughest of the terrains born in delhi graduated from st stephens college university of delhi he is an inspirational speaker who motivates young people to pursue careers in civil services and community development he continues to be an exemplary figure demonstrating how individuals can make a profound impact on their communities through dedication hard work and a deep sense of social responsibility the civil services have risen in social reckoning as a career due to its significant role in bringing government s policies to the people and making development possible on ground like a rainmaker qualifying for the civil services is also considered as a mark of talent and success given that it requires passing through a multi stage rigorous system of examination and interview apart from job security and satisfaction the services provide ample opportunities and challenges to prove one s mettle and also to contribute and give back to society in india the civil service is defined as appointive positions by the government in connection with the affairs of the union and includes a civilian in a defence service except positions in the indian armed forces this

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