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particle dynamics with aggregation and fragmentation occurs in almost every branch of science and engineering examples include the formation of stars and planets in astrophysics the formation of colloids and polymers in chemistry the formation of raindrops and snowflakes in meteorology the formation of fuel sprays in mechanical engineering impact damage to aircraft and satellites in aerospace engineering and drilling and blasting in civil and mining engineering this is one of the first textbooks to give particle dynamics with aggregation and fragmentation a full treatment putting it on an equal footing with fluid dynamics and solid mechanics to help readers understand the connections to fluid dynamics this book shows how particle dynamics occurs in ideal gases granular gases and fluid turbulence instead of relying on empirical results that apply only under specific circumstances the book uses broad physical principles such as conservation of mass momentum and energy the text draws on rigorous mathematical theory and modern high performance computing while avoiding the complex details the book also provides extensive references for those readers who need them while intended for a graduate level audience the book is written in a graphically rich style which will be accessible to advanced undergraduates in particular it includes over 100 figures and over 200 examples most of which are placed into grey boxes to avoid interrupting the main text while surveying the relevant research literature this book also draws on the author s unique insights into particle aggregation and fragmentation gained from participating in relevant research and development activities in industry and academia for over 25 years

seismic design and analysis of tanks a detailed view on the effects of seismic activity on tank structures as the use of above ground and underground storage tanks asts and uts continues to grow with approximately 545 000 in the usa alone the greatest threat to asts and uts is earthquakes causing the contamination of groundwater a vital source of drinking water throughout the world these tanks suffer a great deal of strain during an earthquake as a complicated pattern of stress affects them such that poorly designed tanks have leaked buckled or even collapsed during seismic events furthermore in oil and gas industrial plants the risk of damage is even more critical due to the effects of explosion collapse and air or soil contamination by chemical fluid spillages

seismic design and analysis of tanks provides the first in depth discussion of the principles and applications of shell structure design and earthquake engineering analyses focused on tank structures and it explains how these methodologies can help prevent the destruction of asts and uts during earthquakes providing a thorough examination of the design analysis and performance of steel reinforced concrete and precast tanks this book takes a look at tanks that are above ground underground or elevated anchored and unanchored and rigid or flexible and evaluates the efficacy of each method during times of seismic shaking and it does so without getting bogged down in impenetrable mathematics and theory seismic design and analysis of tanks readers will also find a global approach to the best analytical and practical solutions available in each region discussion of the latest us codes and standards from the american society of civil engineers acse 7 the american concrete institute aci 350 3 371 r the american water works association awwa d100 d110 d115 and the american petroleum institute api 650 an overview of the european codes and standards including eurocode 8 4 and cen en 14015 hundreds of step by step equations accompanied by illustrations photographs illustrating real world damage to tanks caused by seismic events perfect for practising structural engineers geotechnical engineers civil engineers and engineers of all kinds who are responsible for the design analysis and performance of tanks and their foundations as well as students studying engineering seismic design and analysis of tanks is a landmark text the first work of its kind to deal with the seismic engineering performance of all types of storage tanks

disha s updated 5th edition of the book go to guide for cuet ug physics with 16 previous year solved papers 10 practice sets has been prepared as per the changed pattern and syllabus of cuet the book is divided into 2 parts a study material b 10 practice mock tests part a covers well explained theory in a one liner format which is easy to remember the complete syllabus is divided into 14 chapters as per ncert more than 1900 questions are provided for practice with hints solutions 2 sets each of 2025 2024 4 sets of cuet 2023 3 of 2022 solved papers are also added to the book chapter wise 2017 2021 previous paper of past 5 years of cucet have been included chapter wise for better understanding and to know the nature of actual paper part b provides 10 mock tests on the 2025 pattern of 50 mcqs detailed solutions are provided for all the questions the book is strictly based on the class 12 syllabus and follows ncert books

this book comprises the proceedings of the annual conference of the canadian society of civil engineering 2021 the contents of this volume focus on specialty conferences in construction environmental hydrotechnical materials structures transportation engineering etc this volume will prove a valuable resource for those in academia and industry

disha s updated 4th edition of the book go to guide for cuet ug physics with 10 practice sets 14 previous year solved papers has been prepared as per the changed pattern of cuet the book is divided into 2 parts a study material b 10 practice mock tests part a covers well explained theory in a one liner format which is easy to remember the complete syllabus is divided into 15 chapters as per ncert more than 1800 questions are provided for practice with hints solutions 2 sets of 2024 4 sets of cuet 2023 3 of 2022 solved papers are also added to the book chapter wise 2017 2021 previous paper of past 5 years of cucet have been included chapter wise for better understanding and to know the nature of actual paper part b provides 10 mock tests on the 2024 pattern of 50 mcqs 40 to be attempted detailed solutions are provided for all the questions the book is strictly based on the class 12 syllabus and follows ncert books

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