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the central subject matter of this book is einstein's special theory of relativity while it is a book that is written primarily for a lay audience this does not necessarily mean an audience not versed in the ways of doing science rather this book is written for anyone wishing to consider the nature of the scientific enterprise where ideas come from how they become established and accepted what the relationships are among theories predictions and measurements or the relationship between ideas in a scientific theory and the values held to be important within the larger culture some readers will find it strange that i raise any of these issues it is a common view in our culture that the status of knowledge within science is totally different from the status of knowledge in other areas of human endeavor the word science stems from the latin word meaning to know and indeed knowledge which scientists acquire in their work is commonly held to be certain unyielding and absolute consider how we use the adjective scientific there are investors and there are scientific investors there are socialists and there are scientific socialists there are exterminators and there are scientific exterminators we all know how the modifier scientific inttudes in our daily life it is the purpose of this book to challenge the belief that scientific knowledge is different from other kinds of knowledge

innovative shear design presents a new rational and economical design procedure that offers increased protection against shear for all types of structures the first part of the book describes the internal forces imposed on any flexurally bent member and goes on to describe how these can interact with external loading forces to cause failure the author then details the new design approach and explains how its implementation can prevent cracking and failure for a given load the book contains numerous practical examples describing optimum design techniques for all types of structure innovative shear design is an essential reference for structural designers architects academics and researchers it will also be a key reference text for students of

structural design

to the instructor we are seeing an increased need for a one year while the language of calculus is indispensable survey of physics at the calculus level and with here its manipulative power will with some regret the inclusion of some modern physics a growing be left pretty much unexploited calculus centered number of students in engineering as well as in exercises seductive though they are would not the sciences must take early technical courses that help us accomplish our mission demand a reasonable familiarity with physics as a suggested scheduling how much material whole should be covered in one term some possible the present book is a response to that need the apportionments of the 28 chapters 24 without the author is well aware that introductory physics modern physics are indicated in the table below cannot be compressed or pruned ad infinitum nevertheless the one year goal may yet be reachable with modern without modern a slim volume does not seem to be the answer physics physics rather than compressing or pruning i have tried to work towards a smoother exposition to that 2 terms 14 14 12 12 end a variety of devices not necessarily bulk 3 terms 9 10 9 9 8 7 saving have been enlisted a liberal use of line drawings a modest number of chapters but each enough problems are provided for three full fairly broad in the hope of improving the con semesters if desirable

when natural gas was first discovered in appalachia in the 19th century its development as a fuel was rapid unlike oil and coal gas could be moved only by pipeline and required large containers for storage it was not possible to cope with peak loads without adding excessive pipeline capacity until just before world war ii when two sister gas companies developed a plant to liquefy and store natural gas as a liquid the liquid was then regasified to deal with peak loads the liquid is 1 600 the volume of the gas but it requires storage at an extremely low temperature 1 260 f this worked well until 1944 when a liquid natural gas lng tank in cleveland ruptured and caused a fire with 130 fatalities the fire did not end the industry but caused it to pause over the next few years the problems in materials design standards and siting were solved the recognition that liquefaction made lng transportable without a pipeline was the breakthrough in 1959 a shipload of lng went from louisiana to britain and restarted the lng industry it is now a major worldwide energy industry and the topic of this work

now in its commemorative tenth edition sears and zemansky s university physics remains the classic text for today s students adhering to the highest standards of integrity and incorporating some of the findings of current research in physics education the text enables students to develop physical intuition and build strong problem solving skills it also points out conceptual and computational pitfalls that commonly plague beginning physics students and provides them with explicit strategies for analyzing physical situations and solving problems in addition the text supplies a comprehensive range of high quality problem sets developed and refined over the past five decades end of chapter problems revised throughout and even more new problems added more conceptually based problems have been added offered in standard and extended versions and for the first time three split volumes instead of two third split is modern physics instructor s solution manual on cd rom enables professors to read edit and post solutions on their class site new companion site with syllabus builder offers quizzing key concepts for each chapter instructor s guide for an active learnin

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