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this book presents the fundamental concepts of electromagnetism through problems with a brief theoretical introduction at the beginning of each chapter the present book has a strong didactic character it explains all the mathematical steps and the theoretical concepts connected with the development of the problem it guides the reader to understand the employed procedures to learn to solve the exercises independently the exercises are structured in a similar way the chapters begin with easy problems increasing progressively in the level of difficulty this book is written for students of physics and engineering in the framework of the new european plans of study for bachelor and master and also for tutors and lecturers

from 3rd to 5th of september 2015 the 17th international promath conference problem solving in mathematics education took place at the faculty of education of the martin luther university halle wittenberg germany for the first time it was combined with the annual meeting of the working group problem solving of the society of didactics of mathematics this book contains 20 peer reviewed articles of researchers from five european countries the topics of the papers evolved around different areas of learning and problem solving there are some theoretical papers on problem oriented mathematics instruction and specific aspects of problem solving and creativity as well as reports on

detailed studies of problem solving processes of pupils and preservice teachers authors also present experiences with real problem solving instruction in different countries considerations and teaching experiments on didactic concepts to foster pupils problem solving abilities and they describe mathematically rich problem fields and their potentials for mathematical investigations in class promath is a group of experienced and early career researchers in the field of mathematics education who are interested in investigating and fostering mathematical problem solving and problem oriented mathematics teaching

diese sowohl für den neuling als auch für den erfahrenen wissenschaftler verfaßte miniatur enzyklopädie behandelt über 100 untersuchungsmethoden zur charakterisierung von werkstoffen von bewertungen und chemischen analysen bis zu physikalischen verfahren der autor beschreibt jede der methoden nach art und weise ihres einsetzes der probenvorbereitung und dem zugrundeliegenden wissenschaftlich technischen prinzip er bringt anwendungsbeispiele aus dem akademischen und dem industriellen bereich um dem leser eine vorstellung von der bedeutung dieser techniken zu geben methoden zur polymer analyse mit qualitätstests und auswertungsverfahren sowie aus den bereichen oberflächenanalyse und mikroskopie bilden unterstützt durch anschauliche abbildungen und beispiele den schwerpunkt des buches

math problem solving activities

multi criteria decision analysis for supporting the selection of engineering materials in product design second edition provides readers with tactics they can use to optimally select materials to satisfy complex design problems when they are faced with the vast range of materials available current approaches to materials selection range from the use of intuition and experience to more formalized computer based methods such as electronic databases with search engines to facilitate the materials selection process recently multi criteria decision making mcdm methods have been applied to materials selection demonstrating significant capability for tackling complex design problems this book describes the rapidly growing field of mcdm and its application to materials selection it aids readers in producing successful designs by improving the decision making process this new edition updates and expands previous key topics including new chapters on materials selection in the context of design problem solving and multiple objective decision making also presenting a significant amount of additional case studies that will aid in the learning process describes the advantages of quality function deployment qfd in the materials selection process through different case studies presents a methodology for multi objective material design optimization that employs design of experiments coupled with finite element analysis supplements existing quantitative methods of materials selection by allowing simultaneous consideration of design attributes component configurations and types of material provides a case study for simultaneous materials selection and geometrical optimization processes

mechanics of materials with applications in excel covers the fundamentals of the mechanics of materials or strength of materials in a clear and easily understandable way each chapter explains the theory of the underlying principles and the applicable mathematical relations offering examples that illustrate the application of the mathematical relations to physical situations then homework problems arranged from the simplest to the most demanding are presented along with a number of challenging review problems to ensure comprehension of key concepts what makes this book unique is that it also instills practical skills for developing microsoft excel applications to solve mechanics of materials problems using numerical techniques mechanics of materials with applications in excel provides editable excel spreadsheets representing all the examples

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the classical theories of linear elasticity and newtonian fluids though triumphantly elegant as mathematical structures do not adequately describe the deformation and flow of most real materials attempts to characterize the behaviour of real materials under the action of external forces gave rise to the science of rheology early rheological studies isolated the phenomena now labelled as viscoelastic weber 1835 1841 researching the behaviour of silk threads under load noted an instantaneous extension followed by a further extension over a long period of time on removal of the load the original length was eventually recovered he also deduced that the phenomena of stress relaxation and damping of vibrations should occur later investigators showed that similar effects may be observed in other materials the german school referred to these as elastische nachwirkung or the elastic aftereffect while the british school including lord kelvin spoke of the viscosity of solids the universal adoption of the term viscoelasticity intended to convey behaviour combining properties both of a viscous liquid and an elastic solid is of recent origin not being used for example by love 1934 though alfreys 1948 uses it in the context of polymers the earliest attempts at mathematically modelling viscoelastic behaviour were those of maxwell 1867 actually in the context of his work on gases he used this model for calculating the viscosity of a gas and meyer 1874

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this book contains the most important formulas and more than 140 completely solved problems from mechanics of materials and hydrostatics it provides engineering students material to improve their skills and helps to gain experience in solving engineering problems particular emphasis is placed on finding the solution path and formulating the basic equations topics include stress strain hooke's law tension and compression in bars bending of beams torsion energy methods buckling of bars hydrostatics

problems in strength of materials is a translation from the russian and presents problems concerning determining and calculating the strength of materials this book presents the properties of materials that have to do with strength through problem solving this book gives several examples of tension and compression problems such as those concerning statically determinate and indeterminate systems self weight and calculation for flexible wires or cables the text cites problems with uniaxial and plane states of stress and suggests solutions to questions for example by using the formula for determining the maximum strains of an element in three dimensional state of stress this book also explains how to determine acceptable stress forming on thin walled or thick walled containers other examples concern problems of shear and torsion plane flexure and the analytical methods to determine deformations in steel bars as well as the graphical and semi graphical methods of finding the values of deflections this book also explains how to find the solution of problems on inertia forces oscillations resonance and the stresses and deformations that result upon impact of a certain load this book can be used as reference for students pursuing higher national diploma and certificate and for students of engineering

selected peer reviewed papers from the 2012 international conference on mechanical materials and manufacturing engineering icmmme 2012 october 5 6 2012 dalian china

this compilation of selected papers has as its principal objective the discussion of state of the art technologies and recent developments in the macro meso micro and nano mechanics of materials and structures

this book examines new approaches for the estimation of errors in approximate theories numerical and analytical methods in mechanics often require the establishment of a set of basic equations and various approaches exist to create approximate theories from them the problem is that nobody knows the boundaries of the estimation of errors in approximate theories this book presents new approaches to overcome this problem and to provide the reader with suitable methods for the relevant field including a representation of different scientific schools and different countries these new methods are helping to solve many problems not only in analytical mechanics but also in physics mathematics and civil engineering

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Introduction

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