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A Textbook of **APPLIED** Mathematics

Subject Code 241

Class XI
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Applied Mathematics 2 Book

**David Carfi, Michel L. Lapidus, Erin P. J.
Pearse, Machiel van Frankenhuijsen**

Applied Mathematics 2 Book:

Applied Wave Mathematics II Arkadi Berezovski, Tarmo Soomere, 2019-11-16 This book gathers contributions on various aspects of the theory and applications of linear and nonlinear waves and associated phenomena as well as approaches developed in a global partnership of researchers with the national Centre of Excellence in Nonlinear Studies CENS at the Department of Cybernetics of Tallinn University of Technology in Estonia The papers chiefly focus on the role of mathematics in the analysis of wave phenomena They highlight the complexity of related topics concerning wave generation propagation transformation and impact in solids gases fluids and human tissues while also sharing insights into selected mathematical methods for the analytical and numerical treatment of complex phenomena In addition the contributions derive advanced mathematical models share innovative ideas on computing and present novel applications for a number of research fields where both linear and nonlinear wave problems play an important role The papers are written in a tutorial style intended for non specialist researchers and students The authors first describe the basics of a problem that is currently of interest in the scientific community discuss the state of the art in related research and then share their own experiences in tackling the problem Each chapter highlights the importance of applied mathematics for central issues in the study of waves and associated complex phenomena in different media The topics range from basic principles of wave mechanics up to the mathematics of Planet Earth in the broadest sense including contemporary challenges in the mathematics of society In turn the areas of application range from classic ocean wave mathematics to material science and to human nerves and tissues All contributions describe the approaches in a straightforward manner making them ideal material for educational purposes e g for courses master class lectures or seminar presentations

Fractal Geometry and Dynamical Systems in Pure and Applied Mathematics II David Carfi, Michel L. Lapidus, Erin P. J. Pearse, Machiel van Frankenhuijsen, 2013-10-24 This volume contains the proceedings from three conferences the PISRS 2011 International Conference on Analysis Fractal Geometry Dynamical Systems and Economics held November 8 12 2011 in Messina Italy the AMS Special Session on Fractal Geometry in Pure and Applied Mathematics in memory of Beno t Mandelbrot held January 4 7 2012 in Boston MA and the AMS Special Session on Geometry and Analysis on Fractal Spaces held March 3 4 2012 in Honolulu HI Articles in this volume cover fractal geometry and various aspects of dynamical systems in applied mathematics and the applications to other sciences Also included are articles discussing a variety of connections between these subjects and various areas of physics engineering computer science technology economics and finance as well as of mathematics including probability theory in relation with statistical physics and heat kernel estimates geometric measure theory partial differential equations in relation with condensed matter physics global analysis on non smooth spaces the theory of billiards harmonic analysis and spectral geometry The companion volume Contemporary Mathematics Volume 600 focuses on the more mathematical aspects of fractal geometry and dynamical systems

Intelligent Mathematics II: Applied Mathematics and Approximation Theory George A.

Anastassiou, Oktay Duman, 2016-03-21 This special volume is a collection of outstanding more applied articles presented in AMAT 2015 held in Ankara May 28 31 2015 at TOBB Economics and Technology University The collection is suitable for Applied and Computational Mathematics and Engineering practitioners also for related graduate students and researchers Furthermore it will be a useful resource for all science and engineering libraries This book includes 29 self contained and well edited chapters that can be among others useful for seminars in applied and computational mathematics as well as in engineering

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