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instant notes in mathematics and statistics for life scientists is aimed at undergraduate life science students who need to improve or brush up their mathematical and statistical skills to a level which will make the quantitative components of most undergraduate biological courses accessible

this ebook is designed for science and engineering students taking a course in numerical methods of differential equations most of the material in this ebook has its origin based on lecture courses given to advanced and early postgraduate students this

this volume contains the lecture notes of the short course on numerical methods for hyperbolic equations faculty of mathematics university of santiago de compostela spain 2 4 july 2011 the course was organized in recognition of prof eleuterio toro s contribution to education and training on numerical methods for partial differential equation

synopsis the aim of this book is to provide a simple and useful introduction for the fresh students into the vast field of numerical analysis like any other introductory course on numerical analysis this book contains the basic theory which in the present text refers to the following topics linear equations nonlinear equations eigensystems interpolation approximation of functions numerical differentiation and integration stochastics ordinary differential equations and partial differential equations because the students need to quickly understand why the numerical methods correctly work the proofs of theorems were shorted as possible insisting more on ideas than on a lot of algebra manipulation the included examples are presented with a minimum of complications emphasizing the steps of the algorithms the numerical methods described in this book are illustrated by computer programs written in c our goal was to develop very simple programs which are easily to read and understand by students also the programs should run without modification on any compiler that implements the ansi c standard because our intention was to easily produce screen input output using scanf and printf in case of windows visual programming environments like visual

c microsoft and borland c builder the project should be console application this will be not a problem for dos and linux compilers if this material is used as a teaching aid in a class i would appreciate if under such circumstances the instructor of such a class would send me a note at the address below informing me if the material is useful also i would appreciate any suggestions or constructive criticism regarding the content of these lecture notes

the eighth epsrc numerical analysis summer school was held at the uni versity of leicester from the 5th to the 17th of july 1998 this was the third numerical analysis summer school to be held in leicester the previous meetings in 1992 and 1994 had been carefully structured to ensure that each week had a coherent theme for the 1998 meeting in order to widen the audience we decided to relax this constraint speakers were chosen to cover what may appear at first sight to be quite diverse areas of numeri cal analysis however we were pleased with the extent to which the ideas cohered and particularly enjoyed the discussions which arose from differing interpretations of those ideas we would like to thank all six of our main speakers for the care which they took in the preparation and delivery of their lectures in this volume we present their lecture notes in alphabetical rather than chronological order nick higham alastair spence and nick trefethen were the speakers in week 1 while bernardo cockburn stig larsson and bob skeel were the speakers in week 2 another new feature of this meeting compared to its predecessors was that we had invited seminars a number of established academics based in the uk were asked to participate in the afternoon seminar program

in a book that will be required reading for engineers physicists and computer scientists the editors have collated a number of articles on fluid mechanics written by some of the world s leading researchers and practitioners in this important subject area

college students in the united states are becoming increasingly incapable of differentiating between proven facts delivered by scientific inquiry and the speculations of pseudoscience in an effort to help stem this disturbing trend from atoms to galaxies a conceptual physics approach to scientific awareness teaches heightened scientific acuity as it educates students about the physical world and gives them answers to questions large and small written by sadri hassani the author of several mathematical physics textbooks this work covers the essentials of modern physics in a way that is as thorough as it is compelling and accessible some of you might want to know how did galileo come to think about the first law of motion did newton actually discover gravity by way

of an apple and an accident or maybe you have mulled over is it possible for santa claus to deliver all his toys is it possible to prove that elvis does not visit graceland every midnight or perhaps you ve even wondered if ancient taoism really parallels modern physics if psychoanalysis can actually be called a science how it is that some philosophies of science may imply that a 650 year old woman can give birth to a child no advanced mathematics required a primary textbook for undergraduate students not majoring in physics from atoms to galaxies examines physical laws and their consequences from a conceptual perspective that requires no advanced mathematics it explains quantum physics relativity nuclear and particle physics gauge theory quantum field theory quarks and leptons and cosmology encouraging students to subscribe to proven causation rather than dramatic speculation the book defines the often obscured difference between science and technology discussing how this confusion taints both common culture and academic rigor explores the various philosophies of science demonstrating how errors in our understanding of scientific principles can adversely impact scientific awareness exposes how pseudoscience and new age mysticism advance unproven conjectures as dangerous alternatives to proven science based on courses taught by the author for over 15 years this textbook has been developed to raise the scientific awareness of the untrained reader who lacks a technical or mathematical background to accomplish this the book lays the foundation of the laws that govern our universe in a nontechnical way emphasizing topics that excite the mind namely those taken from modern physics and exposing the abuses made of them by the new age gurus and other mystagogues it outlines the methods developed by physicists for the scientific investigation of nature and contrasts them with those developed by the outsiders who claim to be the owners of scientific methodology each chapter includes essays which use the material developed in that chapter to debunk misconceptions clarify the nature of science and explore the history of physics as it relates to the development of ideas noting the damage incurred by confusing science and technology the book strives to help the reader to emphatically demarcate the two while clearly demonstrating that science is the only element capable of advancing technology

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