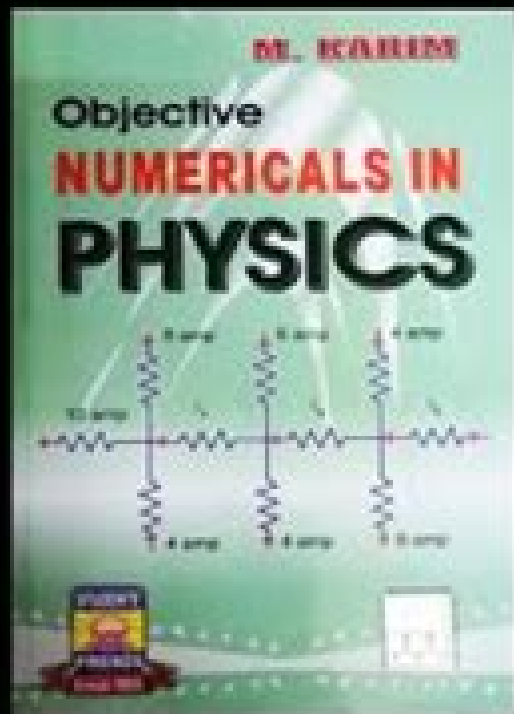


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Analytical Methods for Nonlinear Oscillators and Solitary Waves Chu-Hui He, Hamid M. Sedighi, Ji-Huan He, Yusry El-Dib, Dragan Marinkovic, 2023-11-24 The most well known analytical method is the perturbation method which has led to the great discovery of Neptune in 1846 and since then mathematical prediction and empirical observation became two sides of a coin in physics However the perturbation method is based on the small parameter assumption and the obtained solutions are valid only for weakly nonlinear equations which have greatly limited their applications to modern physical problems To overcome the shortcomings many mathematicians and physicists have been extensively developing various technologies for several centuries however there is no universal method for all nonlinear problems and mathematical prediction with remarkably high accuracy is still much needed for modern physics for example the solitary waves traveling along an unsmooth boundary the low frequency property of a harvesting energy device the pull in voltage in a micro electromechanical system Now various effective analytical methods have appeared in the open literature e g the homotopy perturbation method and the variational iteration method An analytical solution provides a fast insight into its physical properties of a practical problem e g frequency amplitude relation of a nonlinear oscillator solitary wave in an optical fiber pull in instability of a microelectromechanical system making mathematical prediction even more attractive in modern physics Nonlinear physics has been developing into a new stage where the fractal fractional differential equations have to be adopted to describe more accurately discontinuous problems and it becomes ever more difficult to find an analytical solution for such nonlinear problems and the analytical methods for fractal fractional differential equations have laid the foundations for nonlinear physics

Fractional Modeling of Fluid Flow and Transport Phenomena Mohamed F. El-Amin, 2025-01-31 Fractional Modeling of Fluid Flow and Transport Phenomena focuses on mathematical and numerical aspects of fractional order modeling in fluid flow and transport phenomena The book covers fundamental concepts advancements and practical applications including modeling developments numerical solutions and convergence analysis for both time and space fractional order models Various types of flows are explored such as single and multi phase flows in porous media involving different fluid types like Newtonian non Newtonian nanofluids and ferrofluids This book serves as a comprehensive reference on fractional order modeling of fluid flow and transport phenomena offering a single resource that is currently unavailable

Fractional order modeling has gained traction in engineering and science particularly in fluid dynamics and transport phenomena. However, its mathematical and numerical advancements have progressed relatively slowly compared to other aspects. Therefore, this book emphasizes the fractional order modeling of fluid flow and transport phenomena to bridge this gap. Each chapter in the book delves into a specific topic closely related to the others, ensuring a cohesive and self-contained structure. Covers advancements in fractional order fluid flow problems. Serves as a comprehensive reference on fractional order modeling of fluid flow and transport phenomena. Demonstrates the topic with different aspects including modeling, mathematical, computational, and physical commentary.

Applied Mechanics Reviews, 1973 **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards, 1967 *Advances in Differential and Difference Equations with Applications* 2020 Dumitru Baleanu, 2021-01-20

It is very well known that differential equations are related with the rise of physical science in the last several decades and they are used successfully for models of real world problems in a variety of fields from several disciplines. Additionally, difference equations represent the discrete analogues of differential equations. These types of equations started to be used intensively during the last several years for their multiple applications, particularly in complex chaotic behavior. A certain class of differential and related difference equations is represented by their respective fractional forms, which have been utilized to better describe non-local phenomena appearing in all branches of science and engineering. The purpose of this book is to present some common results given by mathematicians together with physicists, engineers, as well as other scientists for whom differential and difference equations are valuable research tools. The reported results can be used by researchers and academics working in both pure and applied differential equations.

Encyclopedia of Surface and Colloid Science P. Somasundaran, 2006 **Polymer Science: A Comprehensive Reference**, 2012-12-05

The progress in polymer science is revealed in the chapters of *Polymer Science: A Comprehensive Reference*. Ten Volume Set. In Volume 1, this is reflected in the improved understanding of the properties of polymers in solution in bulk and in confined situations such as in thin films. Volume 2 addresses new characterization techniques such as high resolution optical microscopy, scanning probe microscopy, and other procedures for surface and interface characterization. Volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture, the development of metallocene and post metallocene catalysis for olefin polymerization, new ionic polymerization procedures, and atom transfer radical polymerization, nitroxide mediated polymerization, and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods. Volume 4 is devoted to kinetics, mechanisms, and applications of ring opening polymerization of heterocyclic monomers and cycloolefins, ROMP, as well as to various less common polymerization techniques. Polycondensation and non-chain polymerizations including dendrimer synthesis and various click procedures are covered in Volume 5. Volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects.

including hybrids and bioconjugates Many of the achievements would have not been possible without new characterization techniques like AFM that allowed direct imaging of single molecules and nano objects with a precision available only recently An entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in Volume 7 It encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers Volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity Another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 It deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces The last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers They discuss new technologies needed for a sustainable economy in our world of limited resources Provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner

Physics Briefs, 1994 **Theoretical Physics to Face the Challenge of LHC**
 Laurent Baulieu, Karim Benakli, Michael R. Douglas, Bruno Mansoulie, Eliezer Rabinovici, Leticia F. Cugliandolo, 2015-01-22

The book gathers the lecture notes of the Les Houches Summer School that was held in August 2011 for an audience of advanced graduate students and post doctoral fellows in particle physics theoretical physics and cosmology areas where new experimental results were on the verge of being discovered at CERN Every Les Houches School has its own distinct character This one was held during a summer of great anticipation that at any moment contact might be made with the most recent theories of the nature of the fundamental forces and the structure of space time In fact during the session the long anticipated discovery of the Higgs particle was announced The book vividly describes the fruitful and healthy schizophrenia that is the rule among the community of theoreticians who have split into several components those doing phenomenology and those dealing with highly theoretical problems with a few trying to bridge both domains The lectures by theoreticians covered many directions in the theory of elementary particles from classics such as the Supersymmetric Standard Model to very recent ideas such as the relation between black holes hydrodynamics and gauge gravity duality The lectures by experimentalists explained in detail how intensively and how precisely the LHC collider has verified the theoretical predictions of the Standard Model predictions that were at the front lines of experimental discovery during the 70 s 80 s and

90 s and how the LHC is ready to make new discoveries They described many of the ingenious and pioneering techniques developed at CERN for the detection and the data analysis of billions of billions of proton proton collisions Mathematical Reviews ,2004 **Index of Mathematical Papers** ,1985 **Proceedings of Second International Conference on Sustainable Expert Systems** Subarna Shakya,Ke-Lin Du,Wang Haoxiang,2022-02-26 This book features high quality research papers presented at the 2nd International Conference on Sustainable Expert Systems ICSES 2021 held in Nepal during September 17 18 2021 The book focusses on the research information related to artificial intelligence sustainability and expert systems applied in almost all the areas of industries government sectors and educational institutions worldwide The main thrust of the book is to publish the conference papers that deal with the design implementation development testing and management of intelligent and sustainable expert systems and also to provide both theoretical and practical guidelines for the deployment of these systems Nuclear Science Abstracts ,1974 Science Abstracts ,1993 *Government Reports Annual Index* ,1990 **Science Citation Index** ,1994 Vols for 1964 have guides and journal lists International Books in Print ,1991 *Directory of Graduate Research* American Chemical Society. Committee on Professional Training,2005 Faculties publications and doctoral theses in departments or divisions of chemistry chemical engineering biochemistry and pharmaceutical and or medicinal chemistry at universities in the United States and Canada *Journal of Research of the National Bureau of Standards* ,1969

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