

Problem Set: Problem-Solving Strategies

For each of these problems, experiment numerically with the given problem, and try to come up with conjectures. Then, try to prove that your conjectures are corrected. Some of your ideas may work, and some of your ideas may not. The goals of this problem set are for you to work on some difficult problems, to get used to brainstorming, and to think about various strategies for approaching problems. For example, try small cases and look for patterns. Choose effective notation. Try the problem with different numbers. Don't be afraid of doing some algebra.

1. Define the function $f(x)$ by

$$f(x) = \frac{1}{1-x}$$

and denote r iterations of the function f by f^r , i.e.

$$\begin{aligned} f^2(x) &= f(f(x)) \\ f^3(x) &= f(f(f(x))) \\ f^4(x) &= f(f(f(f(x)))) \end{aligned}$$

Compute $f^{1999}(2000)$.

2. (Putnam 1990) Let

$$T_0 = 2, \quad T_1 = 3, \quad T_2 = 6,$$

and for $n \geq 3$,

$$T_n = (n+4)T_{n-1} - 4nT_{n-2} + (4n-8)T_{n-3}.$$

The first few terms are

$$2, 3, 6, 14, 40, 152, 784, 5158, 40576, 363392.$$

Find a formula for T_n of the form

$$T_n = A_n + B_n,$$

where (A_n) and (B_n) are well-known sequences.

3. Let \mathbb{N} denote the natural numbers $\{1, 2, 3, 4, \dots\}$. Consider a function $f: \mathbb{N} \rightarrow \mathbb{N}$ which satisfies

$$f(1) = 1, \quad f(2n) = f(n), \quad f(2n+1) = f(2n) + 1$$

for all $n \in \mathbb{N}$. Find a nice simple algorithm for $f(n)$. Your algorithm should be a single sentence long, at most.

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Leray-Schauder Type Alternatives, Complementarity Problems and Variational Inequalities George Isac, 2006-08-18 Complementarity theory a relatively new domain in applied mathematics has deep connections with several aspects of fundamental mathematics and also has many applications in optimization economics and engineering The study of variational inequalities is another domain of applied mathematics with many applications to the study of certain problems with unilateral conditions This book is the first to discuss complementarity theory and variational inequalities using Leray Schauder type alternatives The ideas and method presented in this book may be considered as a starting point for new developments *Notes and Problems in Applied General Equilibrium Economics* K.R. Pearson, B.R. Parmenter, A.A. Powell, P.J. Wilcoxon, P.B. Dixon, 2014-06-28 General equilibrium refers to an analytical approach which looks at the economy as a complete system of inter dependent components industries households investors governments importers and exporters Applied means that the primary interest is in systems that can be used to provide quantitative analysis of economic policy problems in particular countries Reflecting the authors belief in the models as vehicles for practical policy analysis a considerable amount of material on data and solution techniques as well as on theoretical structures has been included The sequence of chapters follows what is seen as the historical development of the subject The book is directed at graduate students and professional economists who may have an interest in constructing or applying general equilibrium models The exercises and readings in the book provide a comprehensive introduction to applied general equilibrium modeling To enable the reader to acquire hands on experience with computer implementations of the models which are described in the book a companion set of diskettes is available **Applied Mathematical Methods in Theoretical Physics** Michio Masujima, 2006-03-06 All there is to know about functional analysis integral equations and calculus of variations in a single volume This advanced textbook is divided into two parts The first on integral equations and the second on the calculus of variations It begins with a short introduction to functional analysis including a short review of complex analysis before continuing a systematic discussion of different types of equations such as Volterra integral equations singular integral equations of Cauchy type integral equations of the Fredholm type with a special emphasis on Wiener Hopf integral equations and Wiener Hopf sum equations After a few remarks on the historical development the second part starts with an introduction to the calculus of variations and the relationship between integral equations and applications of the calculus of variations It further covers applications of the calculus of variations developed in the second half of the 20th century in the fields of quantum mechanics quantum statistical mechanics and quantum field theory Throughout the book the author presents over 150 problems and exercises many from such branches of physics as quantum mechanics quantum statistical mechanics and quantum field theory together with outlines of the solutions in each case Detailed solutions are given supplementing the materials discussed in the main text allowing problems to be solved making direct use of the method

illustrated The original references are given for difficult problems The result is complete coverage of the mathematical tools and techniques used by physicists and applied mathematicians Intended for senior undergraduates and first year graduates in science and engineering this is equally useful as a reference and self study guide **A Companion to Angular**

Momentum Valeria D. Kleiman, Hongkun Park, Robert J. Gordon, Richard N. Zare, 1998-09-30 Angular momentum is a basic concept used in classical physics Examples of phenomena that are related to angular momentum are 1 Why a moving bicycle does not fall over and 2 why the currents in the ocean of the rotating earth tend to follow circular motions Designed as a learning tool for those with limited background in quantum mechanics and to compliment Zare's Angular Momentum this book provides examples problems solutions in angular momentum in quantum mechanics and its applications to chemistry and physics **Encyclopedia of Spectroscopy and Spectrometry**, 2016-09-22 This third edition of the Encyclopedia of Spectroscopy and Spectrometry Three Volume Set provides authoritative and comprehensive coverage of all aspects of spectroscopy and closely related subjects that use the same fundamental principles including mass spectrometry imaging techniques and applications It includes the history theoretical background details of instrumentation and technology and current applications of the key areas of spectroscopy The new edition will include over 80 new articles across the field These will complement those from the previous edition which have been brought up to date to reflect the latest trends in the field Coverage in the third edition includes Atomic spectroscopy Electronic spectroscopy Fundamentals in spectroscopy High Energy spectroscopy Magnetic resonance Mass spectrometry Spatially resolved spectroscopic analysis Vibrational rotational and Raman spectroscopies The new edition is aimed at professional scientists seeking to familiarize themselves with particular topics quickly and easily This major reference work continues to be clear and accessible and focus on the fundamental principles techniques and applications of spectroscopy and spectrometry Incorporates more than 150 color figures 5 000 references and 300 articles for a thorough examination of the field Highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health Presents a one stop resource for quick access to answers and an in depth examination of topics in the spectroscopy and spectrometry arenas *The American Mathematical Monthly*, 1922 Includes section Recent publications *Business Administration Reading Lists and Course Outlines*, 1985 **Finance: Corporate finance & investments**, 1985 *ECAI 94 Proceedings* A. G. Cohn, 1994-11 A collection of refereed papers presented at the 11th European Conference on Artificial Intelligence held in Amsterdam The Netherlands in August 1994 **The Routledge Companion to Artificial Intelligence in Architecture** Imdat As, Prithwish Basu, 2021-05-05 Providing the most comprehensive source available this book surveys the state of the art in artificial intelligence AI as it relates to architecture This book is organized in four parts theoretical foundations tools and techniques AI in research and AI in architectural practice It provides a framework for the issues surrounding AI and offers a variety of perspectives It contains 24 consistently illustrated contributions examining seminal work on AI from around the

world including the United States Europe and Asia It articulates current theoretical and practical methods offers critical views on tools and techniques and suggests future directions for meaningful uses of AI technology Architects and educators who are concerned with the advent of AI and its ramifications for the design industry will find this book an essential reference

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