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A list of unsolved problems may refer to several conjectures or open problems in various academic fields: Unsolved problems in astronomy; Unsolved problems in biology; Unsolved problems in chemistry; Unsolved problems in computer science; Unsolved problems in economics; Unsolved problems in fair

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The Collatz conjecture is one of the most famous unsolved mathematical problems, because it's so simple, you can explain it to a primary-school-aged kid, and they'll probably be intrigued enough to try and find the answer for themselves. So here's how it goes: pick a number, any number. If it's even, divide it by 2.

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Answered May 5, 2016 · Author has 2.7K answers and 3.7M answer views. The most obvious unsolved problem in Computer Science is the  $P=NP$

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problem. Very roughly speaking, "P" are problems that are easy to solve. (the number of operations is less than than some polynomial function of the problem's size.) "NP" are problems that are easy to check the answer.

## **What are the biggest unsolved problems in algorithms? - Quora**

The section "Archive of Solved Problems" includes all the solved problems from the previous issues that have already been commented on in previous issues, while new solutions are found among unsolved problems in the corresponding sections.

## **Kourovka Notebook – Collection of unsolved problems in ...**

In various fields of human study there are problems that have never been solved. Some theories have been put

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forward, but not one fully satisfies the question. So put on your thinking cap and see if you can solve any of the ten unsolved problems listed here: 10.

## **10 Great Unsolved Problems - Listverse**

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Honeywell's latest quantum computer claims a new problem solving

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milestone. The System Model H1 offers the highest "quantum volume" out there. Chris Velazco, @chrisvelazco. October 29, 2020

Mathematics is kept alive by the appearance of new, unsolved problems. This book provides a steady supply of easily understood, if not easily solved, problems that can be considered in varying depths by mathematicians at all levels of mathematical maturity. This new edition features lists of references to OEIS, Neal Sloane's Online Encyclopedia of Integer Sequences, at the end of several of the sections.

Much of elementary number theory arose out of the investigation of three

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problems; that of perfect numbers, that of periodic decimals, and that of Pythagorean numbers. We have accordingly organized the book into three long chapters. The result of such an organization is that motivation is stressed to a rather unusual degree. Theorems arise in response to previously posed problems, and their proof is sometimes delayed until an appropriate analysis can be developed. These theorems, then, or most of them, are "solved problems." Historical discussion is, of course, natural in such a presentation. However, our primary interest is in the theorems, and their logical interrelations, and not in the history per se. The aspect of the historical approach which mainly concerns us is the determination of the problems which suggested the theorems, and

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the study of which provided the concepts and the techniques which were later used in their proof. In most number theory books residue classes are introduced prior to Fermat's Theorem and the Reciprocity Law. But this is not at all the correct historical order. We have here restored these topics to their historical order, and it seems to us that this restoration presents matters in a more natural light. The "unsolved problems" are the conjectures and the open questions—we distinguish these two categories—and these problems are treated more fully than is usually the case. The conjectures, like the theorems, are introduced at the point at which they arise naturally, are numbered and stated formally. Their significance, their interrelations, and the heuristic evidence supporting them are often

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discussed. It is well-known that some unsolved problems, such as Fermat's Last Theorem and Riemann's Hypothesis, have been enormously fruitful in suggesting new mathematical fields, and for this reason alone it is not desirable to dismiss conjectures without an adequate discussion. Further, number theory is very much a live subject, and it seems desirable to emphasize this.

Solved and Unsolved Problems of Structural Chemistry introduces new methods and approaches for solving problems related to molecular structure. It includes numerous subjects such as aromaticity—one of the central themes of chemistry—and topics from bioinformatics such as graphical and numerical characterization of DNA, proteins, and

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proteomes. It also outlines the construction of novel tools using techniques from discrete mathematics, particularly graph theory, which allowed problems to be solved that many had considered unsolvable. The book discusses a number of important problems in chemistry that have not been fully understood or fully appreciated, such as the notion of aromaticity and conjugated circuits, the generalized Hückel  $4n + 2$  Rule, and the nature of quantitative structure–property–activity relationships (QSARs), which have resulted in only partially solved problems and approximated solutions that are inadequate. It also describes advantages of mathematical descriptors in QSAR, including their use in screening combinatorial libraries to search for structures with

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high similarity to the target compounds. Selected problems that this book addresses include: Multiple regression analysis (MRA) Insufficient use of partial ordering in chemistry The role of Kekulé valence structures The problem of protein and DNA alignment Solved and Unsolved Problems of Structural Chemistry collects results that were once scattered in scientific literature into a thoughtful and compact volume. It sheds light on numerous problems in chemistry, including ones that appeared to have been solved but were actually only partially solved. Most importantly, it shows more complete solutions as well as methods and approaches that can lead to actualization of further solutions to problems in chemistry.

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Second edition sold 2241 copies in N.A. and 1600 ROW. New edition contains 50 percent new material.

This tutorial book features an augmented selection of the material presented at the GI-Dagstuhl Research Seminar on Human-Centered Visualization Environments, HCVE 2006, held in Dagstuhl Castle, Germany in March 2006. It presents eight tutorial lectures that are the thoroughly cross-reviewed and revised versions of the summaries and findings presented and discussed at the seminar.

It's Not About the Shark opens the

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door to the groundbreaking science of solutions by turning problems—and how we solve them—upside down.

When we have a problem, most of us zero in, take it apart, and focus until we have it solved. David Niven shows us that focusing on the problem is exactly the wrong way to find an answer. Putting problems at the center of our thoughts shuts down our creative abilities, depletes stamina, and feeds insecurities. *It's Not About the Shark* shows us how to transform our daily lives, our work lives, and our family lives with a simple, but rock-solid principle: If you start by thinking about your problems, you'll never make it to a solution. If you start by thinking about a solution, you'll never worry about your problems again. Through real-life examples and psychology research, David Niven

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shows us why: \*Focusing on the problem first makes us 17 times less likely to find an answer \*Being afraid of a problem is natural: we're biologically primed to be afraid \*Finding a problem creates power – which keeps you from finding a solution \*Working harder actually hides answers \*Absolute confidence makes you less likely to find the answer \*Looking away from a problem helps to see a solution \*Listening only to yourself is one of the best ways to find an answer

Combining hard facts, good sense, and a strong dose of encouragement, David Niven provides fresh and positive ways to think about problem solving.

An examination of the problems which have perplexed mathematicians from antiquity surveys the development of

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this discipline And Non

## Problems In

Key problems and conjectures have played an important role in promoting the development of Ramsey theory, a field where great progress has been made during the past two decades, with some old problems solved and many new problems proposed. The present book will be helpful to readers who wish to learn about interesting problems in Ramsey theory, to see how they are interconnected, and then to study them in depth. This book is the first problem book of such scope in Ramsey theory. Many unsolved problems, conjectures and related partial results in Ramsey theory are presented, in areas such as extremal graph theory, additive number theory, discrete geometry, functional analysis, algorithm design, and in other areas.

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Most presented problems are easy to understand, but they may be difficult to solve. They can be appreciated on many levels and by a wide readership, ranging from undergraduate students majoring in mathematics to research mathematicians. This collection is an essential reference for mathematicians working in combinatorics and number theory, as well as for computer scientists studying algorithms.

Contents Some definitions and notations Ramsey theory Bi-color diagonal classical Ramsey numbers Paley graphs and lower bounds for  $R(k, k)$  Bi-color off-diagonal classical Ramsey numbers Multicolor classical Ramsey numbers Generalized Ramsey numbers Folkman numbers The Erdős–Hajnal conjecture Other Ramsey-type problems in graph theory On van der Waerden numbers and

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