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provides computer science students the foundation they need in discrete mathematics. It gives thorough coverage to topics that have great importance to computer scientists and provides a motivating computer science example for each math topic, helping answer the age-old question, "Why do we have to learn this?"

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Discrete Mathematics is the language of Computer Science. One needs to be fluent in it to work in many fields including data science, machine learning, and software engineering (it is not a coincidence that math puzzles are often used for interviews). We introduce you to this

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language through a fun
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explain-everything
approach: first you
solve many interactive
puzzles that are
carefully designed
specifically for this
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and then we explain
how to solve ...

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discrete mathematics
for computer scientists.
The presentation is
somewhat
unconventional. Indeed
I begin with a
discussion of the basic
rules of mathematical
reasoning and of...

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Concepts and notations
from discrete
mathematics are useful

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in studying and describing objects and problems in branches of computer science, such as computer algorithms, programming languages, cryptography, automated theorem proving, and software development.

Discrete mathematics - Wikipedia

Discrete math is the

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mathematics of computing. The mathematics of modern computer science is built almost entirely on discrete math, in particular combinatorics and graph theory. This means that in order to learn the fundamental algorithms used by computer programmers, students will need a solid background in these subjects. Indeed, at

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most universities, a undergraduate-level course in discrete mathematics is a required part of pursuing a computer science degree. Discrete math is very much ...

Why Discrete Math Is Important | AoPS News

Discrete mathematics forms the mathematical foundation of computer

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and information science. It is also a fascinating subject in itself. Learners will become familiar with a broad range of mathematical objects like sets, functions, relations, graphs, that are omnipresent in computer science.

Discrete Mathematics | Coursera

Discrete mathematics deals with objects that

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come in discrete bundles, e.g., 1 or 2 babies. In contrast, continuous mathematics deals with objects that vary continuously, e.g., 3.42 inches from a wall. Think of digital watches versus analog watches (ones where the second hand loops around continuously without stopping).

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Solutions
relations; elementary
graph theory; integer
congruences;
asymptotic notation
and growth of
functions;
permutations and
combinations, counting
principles; discrete
probability.

Mathematics for Computer Science | Electrical Engineering ...

Discrete Mathematics
is a branch of

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mathematics involving discrete elements that uses algebra and arithmetic. It is increasingly being applied in the practical fields of mathematics and computer science. It is a very good tool for improving reasoning and problem-solving capabilities.

**Discrete
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the ideal introductory
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Discrete mathematics is the study of mathematics that underpins computer science, with a focus on discrete structures, for example, graphs, trees and networks, K H Rosen (2012). It is a contemporary field of mathematics widely used in business and industry.

Importance of Discrete Mathematics in

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from discrete mathematics that are widely used in Computer Science. The course aims to present these ideas "in action"; each one will be geared towards a specific significant application. Thus, students will see the purpose of the techniques at the same time as learning about them.

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CS 70: Discrete Mathematics for Computer Science

- Discrete mathematics and computer science. - Concepts from discrete mathematics are useful for describing objects and problems in computer algorithms and programming languages. These have applications in cryptography, automated theorem proving, and software

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Combinatorics, Graph
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