

DISCRETE MATHEMATICS BY SWAPAN KUMAR SARKAR FILEGURU

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Who are the Indian authors of discrete mathematics?

How many topics are there in discrete mathematics? There are many concepts and theories in continuous mathematics which have discrete versions, such as discrete calculus, discrete Fourier transforms, discrete geometry, discrete logarithms, discrete differential geometry, discrete exterior calculus, discrete Morse theory, discrete optimization, discrete probability ...

What is discrete mathematics syllabus? Discrete Mathematics covers some important concepts such as set theory, graph theory, logic, permutation and combination as well.

Who invented discrete mathematics? Never, mathematicians say, has there been an individual like Paul Erdős. He was one of the century's greatest mathematicians, who posed and solved thorny problems in number theory and other areas and founded the field of discrete mathematics, which is the foundation of computer science.

Who is the best author of mathematics in India?

Did Ramanujan believe in God? Ramanujan was a devout Hindu and believed in the gods and goddesses of Hinduism. The story he relates shows how Ramanujan's culture through its members came to his aid; i.e., people of Tamil culture helped him.

Is discrete math above calculus? 16 Mathematics after Calculus A third key direction is discrete mathematics. Matrices are a part, networks and algorithms are a

bigger part. Derivatives are not a part-this is closer to algebra.

Is discrete math a high level math? Discrete math is essential to college-level mathematics and beyond. Discrete math — together with calculus and abstract algebra — is one of the core components of mathematics at the undergraduate level.

What is the difference between discrete math and continuous math? It is easy to divide mathematics into “discrete mathematics” and “continuous mathematics”: discrete mathematics is about whole numbers and discrete objects, continuous mathematics is about real numbers and approximations. Continuous mathematics is about limits, while discrete mathematics is about counting and algebra.

Is discrete math easy? Many students find that discrete math is harder than calculus. Discrete math is a branch of mathematics that deals with objects that are discrete, meaning they can be counted or listed. This includes things like integers, graphs, and boolean values.

Is discrete math the same as calculus? Discrete mathematics has a largely proof-based structure, which may be a new territory for some students. Calculus, meanwhile, focuses on continuous change and requires strong algebra and trigonometry skills. Ultimately, the difficulty will depend on your aptitude and interest in these subject areas.

Is discrete math useful? Discrete mathematics is used to design and analyze digital circuits, and it is an important foundation for the study of computer engineering. In addition to its applications in computer science and computer engineering, discrete mathematics is also used to study computer networks and security.

What is the opposite of discrete math? Discrete mathematics is in contrast to continuous mathematics, which deals with structures which can range in value over the real numbers, or have some non-separable quality.

Is discrete math real math? Discrete math is considered the contrast of continuous math. Continuous math includes continuous objects such as calculus, integrations, and some other math concepts. However, discrete math topics include the theory of computation, graph theory, and the study of algorithms and their implementations.

What jobs use discrete mathematics?

Who is no. 1 in Maths? Ans: Srinivasa Ramanujan is known as the king of maths in India due to his contribution by working on the Analytical Theory of Numbers, Elliptical Function, and Infinite Series.

What is the IQ of Ramanujan? Born in India in 1887, Srinivasa Ramanujan is one of the most influential mathematicians in the world. He made significant contributions to the analytical theory of numbers, as well as elliptic functions, continued fractions, and infinite series. He had an estimated IQ of 185.

Who discovered pi? 1650 BC) gives us insight into the mathematics of ancient Egypt. The Egyptians calculated the area of a circle by a formula that gave the approximate value of 3.1605 for π . The first calculation of π was done by Archimedes of Syracuse (287–212 BC), one of the greatest mathematicians of the ancient world.

Did Ramanujan have a wife? The Ramanujan-Janaki wedding was a five-day ceremony and it took place along with the wedding of another sister of Janaki. After the wedding, Komalathammal took Janaki along with her son to Kum- bakonam. The young wife was soon back with her parents.

Was Ramanujan a Hindu? Ramanujan (literally, "younger brother of Rama", a Hindu deity) was born on 22 December 1887 into a Tamil Brahmin Iyengar family in Erode, in present-day Tamil Nadu.

How was Ramanujan so smart? He gained intuition by looking at every problem from its most simple level and developing it in his head. After he did that, he knew the inside and out of every formula, so he had the building blocks for new formulas in his back pocket and the intuition to put it together.

Who is known as King of Maths in India? Srinivasa Ramanujan was one of India's greatest mathematical geniuses. He made substantial contributions to the analytical theory of numbers and worked on elliptic functions, continued fractions, and infinite series.

Who is the Indian author of abstract algebra? Basic abstract Algebra / P.B. Bhattacharya, S.K. Jain, S.R. Nagpaul.

Who is the father of discrete geometry? Euclid was a Greek mathematician and is called 'Father of Geometry'. He compiled the book 'Elements' which has several geometric theories. These are still used by mathematicians all around the world.

Who is the best mathematics man in India? Srinivasa Ramanujan (1887-1920), the man who reshaped twentieth-century mathematics with his various contributions in several mathematical domains, including mathematical analysis, infinite series, continued fractions, number theory, and game theory is recognized as one of history's greatest mathematicians.

Unveiling the Secrets of Secret Societies

Throughout history, humans have been captivated by the allure of secret societies, organizations that operate under a veil of secrecy, often shrouded in mystery and speculation. These enigmatic groups have elicited both fascination and suspicion, inviting us to ponder their true nature and purpose.

What is a Secret Society?

A secret society is a group of individuals who share a common bond or interest and operate in secrecy. Members adhere to strict oaths of confidentiality and often participate in rituals and practices that are hidden from public view. The secrecy surrounding these organizations stems from a desire to protect their members, safeguard their beliefs, or achieve specific goals.

Why do Secret Societies Exist?

Secret societies have existed for centuries for various reasons. Some have political or religious agendas, working to influence events or promote their ideals in secret. Others seek to preserve ancient knowledge, cultural traditions, or esoteric practices. Still, others form for purely social or recreational purposes, offering a sense of camaraderie and exclusivity.

Examples of Secret Societies

Throughout history, countless secret societies have emerged, each with its unique character and purpose. Notable examples include the Freemasons, a fraternal

organization with roots in the Middle Ages; the Illuminati, a Bavarian Enlightenment-era group associated with conspiracy theories; and the Rosicrucians, a philosophical and mystical society believed to have originated in the 17th century.

Controversy and Speculation

Secret societies have often been the subject of controversy and speculation. Some believe they are involved in sinister plots to control events or manipulate society. Others dismiss them as harmless clubs or social groups. Whatever their true nature, secret societies continue to attract interest and fuel imaginations, leaving us to ponder the secrets they hold behind their closed doors.

Conclusion

Secret societies are enigmatic organizations that have captured the attention of humans for centuries. While their secrecy can breed mistrust and conspiracy theories, they also represent a fascinating aspect of human nature, showcasing our desire for community, ritual, and the pursuit of hidden knowledge. As we continue to unravel the mysteries surrounding these shadowy groups, we may gain a deeper understanding of our own motivations and the role that secrecy plays in our society.

The History of Java: Thomas Stamford Raffles and the Introduction of Coffee

Who was Thomas Stamford Raffles? Thomas Stamford Raffles was a British statesman and colonial administrator who served as Lieutenant-Governor of British Java from 1811 to 1816. He is best known for his role in the introduction of coffee to the island.

When did Raffles introduce coffee to Java? Raffles introduced coffee to Java in 1815. He brought coffee seeds from Timor and planted them in the Buitenzorg (now Bogor) Botanical Gardens.

Why did Raffles introduce coffee to Java? Raffles believed that coffee could become a profitable crop for Java. He also hoped that it would improve the economic conditions of the Javanese people.

How did Raffles' introduction of coffee impact Java? Raffles' introduction of coffee was a major success. Coffee quickly became one of Java's most important

crops. It also led to the development of a coffee industry that continues to play a significant role in Java's economy today.

What is the legacy of Raffles in Java? Raffles is remembered as one of the most important figures in Javanese history. His introduction of coffee had a lasting impact on the island. He is also credited with introducing other reforms, such as the abolition of slavery and the establishment of a modern education system.

Thermal and Hydraulic Machines: Q&A

Q: Define a thermal and hydraulic machine.

A: A thermal and hydraulic machine is a device that converts thermal energy into mechanical energy or vice versa. Thermal machines operate based on the principles of thermodynamics, while hydraulic machines utilize the principles of fluid mechanics.

Q: What are some examples of thermal machines?

A: Thermal machines include internal combustion engines, gas turbines, steam turbines, and refrigerators. Internal combustion engines convert chemical energy into mechanical energy by burning fuel. Gas and steam turbines generate mechanical energy by expanding heated gases or steam. Refrigerators remove heat from a cold reservoir and transfer it to a hot reservoir using a refrigerant.

Q: What are some examples of hydraulic machines?

A: Hydraulic machines include pumps, turbines, and hydraulic presses. Pumps increase the pressure of a fluid, while turbines convert fluid energy into mechanical energy. Hydraulic presses use hydraulic pressure to apply force to a piston, which performs mechanical work.

Q: How do thermal machines work?

A: Thermal machines operate in cycles, where heat is added to a working fluid, converted into mechanical work, and then rejected from the fluid. The key process in thermal machines is heat transfer, which occurs through conduction, convection, and radiation.

Q: How do hydraulic machines work?

A: Hydraulic machines use the principles of fluid dynamics to convert fluid energy into mechanical energy or vice versa. Pumps use impellers to increase the pressure of a fluid, while turbines use blades to convert the energy of flowing fluid into mechanical rotation. Hydraulic presses utilize the principle of Pascal's law to amplify force and perform mechanical work.

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