

DISCRETE MATHEMATICS BY BALAJI

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Who is the father of discrete math? 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 are the Indian authors of discrete mathematics?

Which book is best for active learners discrete mathematics?

Is discrete mathematics important for algorithms? Yes. Developing algorithms requires knowledge of certain subtopics of "Discrete Mathematics", but many people learn and understand these concepts without taking a formal course in DM.

Did Erdos ever marry? Erdős never married and had no children. He is buried next to his mother and father in the Jewish Kozma Street Cemetery in Budapest. For his epitaph, he suggested "I've finally stopped getting dumber." (Hungarian: "Végre nem butulok tovább").

Who is the godfather of math? Archimedes is widely regarded as one of the greatest mathematicians in history, earning him the title of the "Father of Mathematics." Born in Syracuse, Sicily, in 287 BC, Archimedes was a polymath who made significant contributions to a wide range of fields, including mathematics, physics, engineering, and astronomy.

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.

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 best author of mathematics in India?

Is Calc harder than discrete? As for difficulty, both subjects can be challenging in their own right. 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.

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 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.

Is discrete math needed for AI? AI, essentially the simulation of human intelligence in machines, relies heavily on discrete mathematical concepts for problem-solving, decision-making, and optimization. One fundamental application lies in algorithms, the heart of AI systems.

Do you need calculus before discrete math? What math do I need to learn before discrete mathematics? Students with a solid understanding of algebra, geometry, and precalculus will do very well in discrete math.

Do programmers need discrete mathematics? then yes, some maths is definitely needed. In these cases, a decent understanding of linear programming, geometry, and discrete mathematics is almost mandatory.

How many hours did Paul erdos sleep? Paul Erdős was one of the greatest, most prolific and most original mathematicians of all time. He slept for only three hours a night, did mathematics seven days a week 19 hours a day until he died at the age of

83 - and he believed that a mathematician was a device for turning coffee into mathematical theorems.

Who is the father of 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.

What languages did Erdos speak?

Who is king of mathematics? Answer: Leonhard Euler, a Swiss mathematician that introduced various modern terminology and mathematical notation, is called the King of mathematics.

Who is called God maths? Archimedes(a greek mathematician)is known as the god of maths.

Who is the smartest math guy? Srinivasa Ramanujan is considered the world's greatest mathematician. Although he had almost no formal training in pure mathematics, he compiled over 3900 formulas. He contributed significantly to continued fractions, infinite series, number theory and analysis.

What is the origin of discrete math? The originators of the basic concepts of Discrete Mathematics, the mathematics of finite structures, were the Hindus, who knew the formulae for the number of permutations of a set of n elements, and for the number of subsets of cardinality k in a set of n elements already in the sixth century.

Who is the real father of calculus? Today, both Newton and Leibniz are given credit for independently developing the basics of calculus. It is Leibniz, however, who is credited with giving the new discipline the name it is known by today: "calculus".

Who is the father of pure math? Benjamin Peirce was an early American mathematician who worked on celestial mechanics and geodesy on the applied side and linear associative algebra and number theory on the pure side. He has been called the "Father of pure mathematics" in America.

Who is the father of algorithm in math? What is al-Khw?rizm? famous for? Al-Khw?rizm? is famous for his mathematical works, which introduced Hindu-Arabic numerals and algebra to European mathematicians. In fact, the words algorithm and algebra come from his name and the title of one of his works, respectively.

What is mechanical design of transmission line? Introduction The mechanical design of this transmission line includes pole structure, wind load pressure, sag and the tensions on the conductor and also the guy wires. Some details on the line insulators and the line accessories are further discussed in this part.

What are the electrical design factors for overhead transmission lines? When designing an overhead power transmission line there are some factors that must be discussed/considered: Electrical factors - like conductors, insulators, clearances, and many. Mechanical factors - like structure support, the strength of insulators/conductors, and many more.

What is overhead line design? Overhead line is designed on the principle of one or more overhead wires situated over rail tracks. Feeder stations at regular intervals along the overhead line supply power from the high-voltage grid.

How to design a transmission line? Transmission Line Design involves route selection, reconnaissance survey, earth resistivity test, preliminary survey etc. The route of a transmission line is decided from the following main considerations. a) Shortest length, hence least capital cost. easy approach & accessibility).

What are the three types of mechanical design?

What are the four types of transmission lines?

What are the 5 components of overhead lines?

What are the factors affecting the mechanical design of overhead transmission lines? The proper overhead line operation depends to a significant extent upon the adequate selection of insulators. There are few insulator types but the most typically used are pin type, suspension type, strain insulator and shackle insulator.

What are the main parameters of an overhead transmission line? The transmission line has mainly four parameters, resistance, inductance, capacitance and shunt conductance. These parameters are uniformly distributed along the line. Hence, it is also called the distributed parameter of the transmission line. ...

Are overhead lines AC or DC? Typical utility-scale power plants generate alternating current (AC) electricity, and most electrical loads run on AC power. Thus, the majority of transmission lines carrying power around the world are of the AC type.

What is the difference between overhead and transmission lines? The choice between overhead power lines and underground cables depends on various factors such as cost, aesthetics, reliability, and safety. While overhead power lines are more cost-effective and flexible for long-distance power transmission, underground cables offer enhanced aesthetics and reduced outages.

What is the difference between HT and LT lines? LT connection means LT stands for Low Tension, while HT stands for High Tension. These terms refer to the voltage of the electricity supply. LT electricity is typically used for residential and commercial buildings, while HT electricity is typically used for industrial and commercial buildings.

What is the design code for transmission line? Some of the most relevant IEC standards for transmission line design are 60071 (Insulation Coordination), 60826 (Design Criteria of Overhead Transmission Lines), 60986 (Short-Circuit Temperature Limits of Electric Cables with Rated Voltages from 6 kV ($U_m = 7.2$ kV) up to 30 kV ($U_m = 36$ kV)), and 60909 (Short-Circuit ...

What is the structural design of transmission lines? The structures commonly used on transmission lines are either lattice type or pole type and are shown in Figure 15.1. Lattice structures are usually composed of steel angle sections. Poles can be wood, steel, or concrete. Each structure type can also be self-supporting or guyed.

What are the six components of transmission line? Transmission Lines are made up of various components, namely poles, lattice structures, conductors,

cables, insulators, foundations and earthing systems. These components are described in more detail in this document. The primary functions of transmission line structures are to provide mechanical support to conductors.

How to learn mechanical design?

What is the best software for mechanical design?

What is basic mechanical design? Mechanical design is the process of developing a machine, product, or mechanical system for functional use. Mechanical design is also used to design specific parts and components. It is sometimes called machine design or engineering design.

How many volts are in overhead power lines? Electricity comes out of a power station at a low voltage, around 10-30 kilovolts (kV). It then passes through a 'step-up' transformer at a transmission substation to create high-voltage electricity – up to 400,000 volts – which travels around National Grid's electricity transmission network.

What is the most widely used transmission line? The most widely used type of transmission line is coaxial cable. An unbalanced line is one in which neither wire is connected to ground. A pair of current-carrying conductors is not considered a transmission line unless it is less than 0.1λ long at the signal frequency.

What is G in transmission line? The transmission line is modelled with a resistance (R) and inductance (L) in series with a capacitance (C) and conductance (G) in parallel. The resistance and conductance contribute to the loss in a transmission line.

Why are transmission lines not insulated? Because they carry large quantities of electricity at a very high voltage, transmission lines are not covered by an insulating sheath. The air around them provides insulation. Therefore, it's important that nothing come close enough to the lines to cause an electric arc.

What is overhead vs transmission lines? An overhead line typically has a wider easement footprint than an underground line. Underground high-voltage transmission lines have a life expectancy of 40+ years, while overhead lines have a life expectancy of more than 80 years.

What is the voltage of the overhead transmission line? Overhead lines carry up to 380.000 volts (380 kV) to transport electricity from power stations to towns and urban centres.

What is the most common fault on an overhead transmission line? The most common causes of overhead transmission line faults are single-phase grounding short-circuit faults, including metallic and non-metallic grounding faults. The most common causes of overhead transmission line faults are short-circuit grounding and other external forces.

Why is SAG important in transmission line? Every transmission line is allowed with a particular sag. The value of sag should be perfect to provide safety for the conductor from not being influenced by high tension. If this sag crosses its limit, there is a chance of conductor breakage and short circuit.

Why do overhead transmission lines carry high voltages? Electricity is transmitted at high voltages to reduce the energy loss due to resistance that occurs over long distances.

What is the mechanical transmission? Mechanical power transmission refers to the transfer of mechanical energy (physical motion) from one component to another in machines. Most machines need some form of mechanical power transmission. Common examples include electric shavers, water pumps, turbines and automobiles.

What is transmission design? Transmission systems transfer mechanical power from a source to another machine components. For example let us consider a car, in which the power from engine is transmitted to wheels through clutch, gearbox, prop shaft and differential, these components are called transmission elements.

What is the design principle of transmission? Design principle of transmission line Mainly, transmission lines have been designed in two ways which are gravity and pumping systems. Gravity Systems, The most important point in this method is to determine piezometric line carefully.

What is a mechanical power transmission system? The term mechanical power transmission denotes the process of harnessing and directing power from a source, such as an engine or motor, to an output device via mechanical components, rather

than electrical methods. This method provides for control over the speed, torque, and directionality of the conveyed force.

What are the three methods of mechanical power transmission are electrical?

There are different ways to transmit power and speed within mechanical power transmission technology: Toothed- or V-belt drives. Chain drives. Shaft couplings.

What is the most efficient mechanical transmission? To transfer the force exerted on the pedals to the transducer, the transmission elements of greatest use are chain and belt. The chain transmission is the most preferred for its reliability, efficiency, ease of adjustment to the needs and cost.

What are the 4 types of transmissions?

What are the factors to consider in the design of transmission lines?

What is the modeling of a transmission line? The transmission line is modelled with a resistance (R) and inductance (L) in series with a capacitance (C) and conductance (G) in parallel. The resistance and conductance contribute to the loss in a transmission line.

What is the transmission line approach? Transmission line theory explains the results in terms of a forward and a reflected wave, the two components summing at each end to satisfy the boundary conditions: zero current for an open circuit, zero voltage for a short.

What is the principle of electrical transmission? The fundamental principle behind power transmission in physics is the efficient transfer of energy from one location to another. This is done predominantly through the use of conductive materials like wires or the propagation of electromagnetic waves.

How to design a power transmission system? If a huge amount of power is to be transmitted, then a single belt may not be sufficient. In such a case, wide pulleys (for V-belts or circular belts) with a number of grooves are used. Then a belt in each groove is provided to transmit the required amount of power from one pulley to another.

What is the basic concept of transmission? “The basic concept of the transmission is to take the power generated from the engine and convert it into kinetic energy to move your vehicle forward. To do so, the automatic transmission needs a torque converter and planetary gearset.”

What is the equation for mechanical power transmission? The three formulas for power in mechanics are: $P = W/t$ (Power equals work divided by time), $P = F \cdot v$ (Power equals force multiplied by velocity), and $P = I \cdot V$ (Power equals current multiplied by voltage).

What is the basic of electrical power transmission system? Electric power transmission is the bulk movement of electrical energy from a generating site, such as a power plant, to an electrical substation. The interconnected lines that facilitate this movement form a transmission network.

How many transmission lines are there? The American power grid is sometimes called “the world's largest machine,” with its more than 500,000 miles of high-voltage transmission lines, 5 million miles of distribution lines, and thousands of power plants. Decarbonization will make it even larger.

Which Excel for Dummies is best? If you're new to Excel and want to start off right, there's no better book than Greg Harvey's Excel for dummies to take your basic Excel skills to the next level. Greg's book is a whopping 784-pages (literally 8 books in one), and worth every \$.

What does Excel for Dummies cover? You'll learn how to design worksheets, use formulas and functions, collaborate with colleagues and review their work, create charts and graphics, manage and analyze data, and create macros.

Which version of Excel is best to learn? If we talk about those persons who have never used Excel before and those who are beginner level users, the Excel 2007 is the right version to learn the basic functionality of MS Excel. Excel is the easiest way to organize and manage financial information, which is why most businesses use it extensively.

Which version of Excel is mostly used? Is there a version of Excel being most popular? MS365 is probably most widely adopted by businesses. Excel Online is just

a service that's included in all MS365 subscriptions (and free one). But there are some limitations and most businesses prefer license that allows desktop installation.

Can I teach myself to use Excel? If you are really interested in learning excel, then you can EXCEL in excel, even without a tutor, just by your own efforts. There are plenty of resources available on internet, that might be helpful to you in your excel journey, check them out, (be it free courses, youtube, articles, practice challenges, quizzes etc.)

What is Excel for beginners? Excel is the world's most used spreadsheet program. Excel is a powerful tool to use for mathematical functions. Start learning Excel now » Learn Excel.

How to create formulas in Excel for dummies?

What is replacing Excel?

What are the 3 versions of Excel?

What tool is better than Excel? Google Sheets is one of the closest Excel alternatives you'll find. It's a cloud-based spreadsheet tool that facilitates real-time processing and supports multi-user collaboration. In addition to the broader suite of Google Workspace applications, Google Sheets integrates with other platforms seamlessly.

What is the most used Excel? Sum. The SUM function in Excel is among the most commonly used formulas. This formula adds the values ??of the cells within it. Supports both separate cells and intervals.

Which Excel file is best? Unlike the binary format of XLS files, XLSX files store data in a structured XML format, making them more accessible and compatible with various software applications. XLSX files can hold large data sets and provide better compatibility with various versions of Excel and other spreadsheet programs than XLS files.

Is there a better version of Excel? Excel is the undisputed powerhouse of the spreadsheet world, but it can be overkill for many common tasks. Google Sheets should be your next stop, or if you're looking for a Google Sheets alternative, try [Google Sheets alternative](#)

Zoho Sheet. If you want a native application rather than a browser solution, LibreOffice Calc is your best bet.

How to learn Excel very quickly?

Can I learn basic Excel in one day? Although it's possible to gain a basic understanding of Excel's interface and core functions in just a few hours, it can require additional time and study to master its more complex capabilities. It takes most Excel users approximately 18-20 hours to fully learn this spreadsheet application.

What is the best way to teach Excel? The easiest way to teach students how to use Excel is to give them some straightforward tasks on the platform. For example, you can show them how to input basic data into Excel and arrange it in an accessible format. Additionally, you can use a teaching resource platform to show students how to use the basics of Excel.

How to start Excel step by step? Click File, and then click New. If you want to start with the equivalent of a blank grid, click Blank workbook. If you want a head-start on a particular kind of workbook, choose one of the templates available on Office.com. Choose from budgets, event planners, membership lists, and more.

What are the 5 basic functions of Excel?

What is VLOOKUP in Excel? What Is VLOOKUP in Excel? VLOOKUP is a powerful function in Excel that searches for a value in the first column of a range (table or array) and returns a corresponding value in the same row from a specified column. The "V" in VLOOKUP stands for "Vertical," indicating that it searches vertically (downward) in a table.

What are the 20 functions of Excel formulas?

What is Excel explained simply? Excel is a spreadsheet program from Microsoft and a component of its Office product group for business applications. Microsoft Excel enables users to format, organize and calculate data in a spreadsheet.

How can I learn Excel formulas easily? The easiest way to learn Excel formulas is by practicing the examples given in this article with real-world examples. Start with

basic formulas and gradually progress to more complex ones. DataCamp tutorials, courses, and cheat sheets can also be helpful resources.

Are Oxford handbooks good for medical students? The Oxford Handbook for Medical School provides an essential, practical guide for all students, whether you have just received your offer, you're eager to succeed on the wards, or you're about to start your final exams.

Are Oxford handbooks any good? Handbooks are an excellent source for reviews of literature around major themes. PSU subscribed subjects include Business & Management, Classical Studies, Criminology & Criminal Justice, Economics & Finance, History, Linguistics, Literature, Music, Philosophy, Political Science, and Religion.

Is Oxford Handbook of Clinical Medicine useful? I highly recommend this book to all practising internal medicine physicians in US. This will strengthen their clinical knowledge and off course while managing patients, these physicians will have opportunity to study comparative disease management practices in UK.

What is the latest edition of the Oxford Handbook of Clinical Medicine? Now in its eleventh edition, the Oxford Handbook of Clinical Medicine includes three new authors on the writing team, bringing a fresh perspective to the content.

Which is better for medical Harvard or Oxford? If you aim to become a practising medic, then Oxford or Cambridge are better if you want to work in the UK, and Harvard is better if you want to work in the US. They have radically different qualification routes, and the university degrees form a part of the professional qualification process.

What is the GPA for Oxford Med? First degree The course is open only to graduates with a degree class of 2.1 or above (or a GPA above 3.5) in applied and experimental science, including bioscience, chemistry, experimental physics and engineering. Check the list of courses that are typically acceptable.

Are Oxford handbooks peer-reviewed? OUP undertakes a process of peer review for all scholarly publishing. This process can vary on a title by title basis according to the needs of a proposal but there is a basic standard framework.

How credible is Oxford? Oxford publishes accurate and authoritative texts. And, the English spelling and vocabulary is not at all difficult to adapt to for American readers.

How often are Oxford handbooks updated? Each Handbook is published on Oxford Academic, with new articles added every month to upcoming Handbooks in advance of print publication.

What is the difference between Cambridge Med and Oxford Med? Oxford vs Cambridge Medicine: Course Structure Both Oxford and Cambridge also deliver their teaching through small-group tutorials and supervision rather than large-group seminars. Cambridge does offer full body dissection throughout their course whilst Oxford only offers prosections.

How hard is it to get into Oxford Medicine? Please note that competition to study Medicine at Oxford is particularly strong and only around 425 applicants are shortlisted for interview each year. No student is admitted without interview. Students are selected for their scientific ability and for their aptitude for Medicine.

What is the acceptance rate for Oxford Medicine? Competition at Oxford Medical School is strong with a 12.4% success rate, meaning roughly 1 in 8 applicants receive an offer. Why is Oxford Medicine six years long? The length of Oxford's course is due to its traditional split into pre-clinical and clinical years.

Why is Oxford medicine 6 years? Various medical schools such as Oxford, Cambridge, University College London, Imperial College London; have 6 year course lengths as the course is structured in such a way that it leads to students graduating with a medical degree and also an additional qualification for example an undergraduate degree like a BSc.

How much is Oxford medicine? Yearly tuition fees for Undergraduate and Graduate Medicine courses at Oxford University are £9,250 for home students. International student fees for Pre-clinical years are £36,800 with Clinical years costing £48,600. Tuition fee loans are offered to all UK students by the Government and cover the course fees in full.

What is the synopsis of the Oxford Handbook of Clinical Medicine? Book overview Unique among medical texts, the Oxford Handbook of Clinical Medicine is a complete and concise guide to the core areas of medicine that also encourages thinking about the world from the patient's perspective, offering a holistic, patient-centred approach.

Is Oxford University good for studying medicine? 2000 introduced the Medical Sciences Division, an internationally recognised centre of excellence for teaching and research in the clinical and biomedical fields, for which Oxford Medical School has ranked 1st in the world in Times Higher Education's ranking of Universities for Pre-clinical, Clinical and Health ...

What books do US medical students read?

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Do publications look good for medical school? The first thing to understand is that a publication is not truly necessary. Many students get into medical school without publications. With that said, a publication does make you a stronger applicant. It is a tangible output of your prior achievement—a quantifiable metric of your success as an undergraduate.

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