

1. If  ${}^n P_3 = 336$ , find the value of  $n$ ?

$$\text{Ans: Given } {}^n P_3 = 336 \Rightarrow \frac{n!}{(n-3)!} = 336 \Rightarrow \frac{n(n-1)(n-2)(n-3)!}{(n-3)!} = 336$$
$$\Rightarrow n(n-1)(n-2) = 8 \cdot (8-1)(8-2). \text{ Therefore } n=8$$

2. If  ${}^{n-1} P_3 : {}^{n+1} P_3 = 5:12$ , Then find the value of  $n$ .

$$\text{Ans: Here } \frac{5}{12} = \frac{{}^{n-1} P_3}{{}^{n+1} P_3} = \frac{(n-2)(n-3)}{n(n+1)}$$

$$\text{or } 5n^2 + 5n = 12n^2 - 60n + 72$$

$$\text{or } 7n^2 - 65n + 72 = 0$$

$$\text{or } (n-8)(7n-9) = 0$$

$$\text{or } n = 8, 9/7;$$

# Discrete Math Computer Science

**M Woodhall**



## **Discrete Math Computer Science:**

Discrete Mathematics for Computer Science Jon Pierre Fortney, 2020-12-23 Discrete Mathematics for Computer Science An Example Based Introduction is intended for a first or second year discrete mathematics course for computer science majors It covers many important mathematical topics essential for future computer science majors such as algorithms number representations logic set theory Boolean algebra functions combinatorics algorithmic complexity graphs and trees Features Designed to be especially useful for courses at the community college level Ideal as a first or second year textbook for computer science majors or as a general introduction to discrete mathematics Written to be accessible to those with a limited mathematics background and to aid with the transition to abstract thinking Filled with over 200 worked examples boxed for easy reference and over 200 practice problems with answers Contains approximately 40 simple algorithms to aid students in becoming proficient with algorithm control structures and pseudocode Includes an appendix on basic circuit design which provides a real world motivational example for computer science majors by drawing on multiple topics covered in the book to design a circuit that adds two eight digit binary numbers Jon Pierre Fortney graduated from the University of Pennsylvania in 1996 with a BA in Mathematics and Actuarial Science and a BSE in Chemical Engineering Prior to returning to graduate school he worked as both an environmental engineer and as an actuarial analyst He graduated from Arizona State University in 2008 with a PhD in Mathematics specializing in Geometric Mechanics Since 2012 he has worked at Zayed University in Dubai This is his second mathematics textbook

*Fundamentals of Discrete Math for Computer Science* Tom Jenkyns, Ben Stephenson, 2012-08-28 This textbook provides an engaging and motivational introduction to traditional topics in discrete mathematics in a manner specifically designed to appeal to computer science students The text empowers students to think critically to be effective problem solvers to integrate theory and practice and to recognize the importance of abstraction Clearly structured and interactive in nature the book presents detailed walkthroughs of several algorithms stimulating a conversation with the reader through informal commentary and provocative questions Features no university level background in mathematics required ideally structured for classroom use and self study with modular chapters following ACM curriculum recommendations describes mathematical processes in an algorithmic manner contains examples and exercises throughout the text and highlights the most important concepts in each section selects examples that demonstrate a practical use for the concept in question

*Discrete Mathematics for Computer Science* David Liben-Nowell, 2017-09-05 Written exclusively with computer science students in mind Discrete Mathematics for Computer Science provides a comprehensive treatment of standard course topics for the introductory discrete mathematics course with a strong emphasis on the relationship between the concepts and their application to computer science The book has been crafted to enhance teaching and learning ease and includes a wide selection of exercises detailed exploration problems examples and problems inspired by wide ranging applications of computer science and handy quick reference guides for key

technical topics throughout Discrete Mathematics for Computer Science provides a lucidly written introduction to discrete mathematics with abundant support for learning including over 450 examples thorough chapter summaries simple quizzes and approximately 1600 homework exercises of widely varying difficulty Each chapter begins with motivational content that relates the chapter topic to computer science practice and the book also includes over fifty Computer Science Connections which discuss applications to computer science such as Rotation Matrices Game Trees Logic and Winning Tic Tac Toe Moore's Law Secret Sharing The Enigma Machine and the First Computer Bayesian Modeling and Spam Filtering and Quantum Computing

*Mathematics of Discrete Structures for Computer Science* Gordon J. Pace, 2012-07-09 Mathematics plays a key role in computer science some researchers would consider computers as nothing but the physical embodiment of mathematical systems And whether you are designing a digital circuit a computer program or a new programming language you need mathematics to be able to reason about the design its correctness robustness and dependability This book covers the foundational mathematics necessary for courses in computer science The common approach to presenting mathematical concepts and operators is to define them in terms of properties they satisfy and then based on these definitions develop ways of computing the result of applying the operators and prove them correct This book is mainly written for computer science students so here the author takes a different approach he starts by defining ways of calculating the results of applying the operators and then proves that they satisfy various properties After justifying his underlying approach the author offers detailed chapters covering propositional logic predicate calculus sets relations discrete structures structured types numbers and reasoning about programs The book contains chapter and section summaries detailed proofs and many end of section exercises key to the learning process The book is suitable for undergraduate and graduate students and although the treatment focuses on areas with frequent applications in computer science the book is also suitable for students of mathematics and engineering

*Discrete Mathematics for Computer Science* Kenneth Bogart, Clifford Stein, Robert L. Drysdale, 2005-09-08 Discrete Mathematics for Computer Science is the perfect text to combine the fields of mathematics and computer science Written by leading academics in the field of computer science readers will gain the skills needed to write and understand the concept of proof This text teaches all the math with the exception of linear algebra that is needed to succeed in computer science The book explores the topics of basic combinatorics number and graph theory logic and proof techniques and many more Appropriate for large or small class sizes or self study for the motivated professional reader Assumes familiarity with data structures Early treatment of number theory and combinatorics allow readers to explore RSA encryption early and also to encourage them to use their knowledge of hashing and trees from CS2 before those topics are covered in this course

**A Logical Approach to Discrete Math** David Gries, Fred B. Schneider, 2013-03-14 This text attempts to change the way we teach logic to beginning students Instead of teaching logic as a subject in isolation we regard it as a basic tool and show how to use it We strive to give students a skill in the propositional and predicate calculi and then

to exercise that skill thoroughly in applications that arise in computer science and discrete mathematics We are not logicians but programming methodologists and this text reflects that perspective We are among the first generation of scientists who are more interested in using logic than in studying it With this text we hope to empower further generations of computer scientists and mathematicians to become serious users of logic Logic is the glue Logic is the glue that binds together methods of reasoning in all domains The traditional proof methods for example proof by assumption contradiction mutual implication and induction have their basis in formal logic Thus whether proofs are to be presented formally or informally a study of logic can provide understanding

**Discrete Mathematics and Graph Theory** K. Erciyes, 2021-01-28 This textbook can serve as a comprehensive manual of discrete mathematics and graph theory for non Computer Science majors as a reference and study aid for professionals and researchers who have not taken any discrete math course before It can also be used as a reference book for a course on Discrete Mathematics in Computer Science or Mathematics curricula The study of discrete mathematics is one of the first courses on curricula in various disciplines such as Computer Science Mathematics and Engineering education practices Graphs are key data structures used to represent networks chemical structures games etc and are increasingly used more in various applications such as bioinformatics and the Internet Graph theory has gone through an unprecedented growth in the last few decades both in terms of theory and implementations hence it deserves a thorough treatment which is not adequately found in any other contemporary books on discrete mathematics whereas about 40% of this textbook is devoted to graph theory The text follows an algorithmic approach for discrete mathematics and graph problems where applicable to reinforce learning and to show how to implement the concepts in real world applications

*Discrete Mathematical Structures for Computer Science* Bernard Kolman, Robert C. Busby, 1987 This text has been designed as a complete introduction to discrete mathematics primarily for computer science majors in either a one or two semester course The topics addressed are of genuine use in computer science and are presented in a logically coherent fashion The material has been organized and interrelated to minimize the mass of definitions and the abstraction of some of the theory For example relations and directed graphs are treated as two aspects of the same mathematical idea Whenever possible each new idea uses previously encountered material and then developed in such a way that it simplifies the more complex ideas that follow

**Discrete Math for Computer Science Students** Stahl Zsolt, 2016-08-28 Discrete Mathematics for Computer Science Students emphasizes mathematical definitions and proofs as well as applicable methods Topics include formal logic notation proof methods induction well ordering sets relations elementary graph theory integer congruences asymptotic notation and growth of functions permutations and combinations counting principles discrete probability Further selected topics may also be covered such as recursive definition and structural induction state machines and invariants recurrences generating functions

**Discrete Mathematics Using a Computer** John O'Donnell, Cordelia Hall, Rex Page, 2009-10-12 Computer science abounds with applications of discrete mathematics yet students of computer

science often study discrete mathematics in the context of purely mathematical applications They have to figure out for themselves how to apply the ideas of discrete mathematics to computing problems It is not easy Most students fail to experience broad success in this enterprise which is not surprising since many of the most important advances in science and engineering have been precisely applications of mathematics to specific science and engineering problems To be sure most discrete math textbooks incorporate some aspects applying discrete math to computing but it usually takes the form of asking students to write programs to compute the number of three ball combinations there are in a set of ten balls or at best to implement a graph algorithm Few texts ask students to use mathematical logic to analyze properties of digital circuits or computer programs or to apply the set theoretic model of functions to understand higher order operations A major aim of this text is to integrate tightly the study of discrete mathematics with the study of central problems of computer science

*Discrete Mathematics for Computer Scientists* J. K. Truss, 1999 This is a new edition of a successful introduction to discrete mathematics for computer scientists updated and reorganised to be more appropriate for the modern day undergraduate audience Discrete mathematics forms the theoretical basis for computer science and this text combines a rigorous approach to mathematical concepts with strong motivation of these techniques via practical examples Key Features Thorough coverage of all area of discrete mathematics including logic natural numbers coding theory combinatorics sets algebraic functions partially ordered structures graphs formal machines complexity theory Special emphasis on the central role of propositional predicate logic Full chapters on algorithm analysis complexity theory Introductory coverage of formal machines coding theory Over 700 exercises Flexible structure so that the material can be easily adapted for different teaching styles New to this Edition Improved treatment of induction Coverage of more basic algebra List of symbols including page references for definition explanation Modern text design and new exercises to aid student comprehension 0201360616B04062001 **Mathematical Foundations of Computer Science** Ashwin Lall, 2024-11-05 Mathematical Foundations of Computer Science introduces students to the discrete mathematics needed later in their Computer Science coursework with theory of computation topics interleaved throughout Students learn about mathematical concepts just in time to apply them to theory of computation ideas For instance sets motivate the study of finite automata direct proof is practised using closure properties induction is used to prove the language of an automaton and contradiction is used to apply the pumping lemma The main content of the book starts with primitive data types such as sets and strings and ends with showing the undecidability of the halting problem There are also appendix chapters on combinatorics probability elementary number theory asymptotic notation graphs loop invariants and recurrences The content is laid out concisely with a heavy reliance on worked examples of which there are over 250 in the book Each chapter has exercises totalling 550 This class tested textbook is targeted to intermediate Computer Science majors and it is primarily intended for a discrete math proofs course in a Computer Science major It is also suitable for introductory theory of computation courses The authors hope this

book breeds curiosity into the subject and is designed to satisfy this to some extent by reading this book The book will prepare readers for deeper study of game theory applications in many fields of study *Discrete Mathematical Structures with Applications to Computer Science* Jean-Paul Tremblay,R. Manohar,1987 Discrete Structures Andreas Klappenecker,Hyunyoung Lee,2024-11-11 **Discrete Mathematics For Computer Scientist** Ali Selamat,Md Hafiz Selamat,2012 This book serves as an introduction to computer sciences students in the undergraduate levels It will be used as the foundation to understand the discrete mathematic in developing the logic of computer programs Since there are also similar undergraduate computer science programmes in other local and overseas institutions this book is expected to find wider local and international readership Topics covered in this book include set theory and relations functions sequence and string propositional logic predicate logic matrices graph theory and trees As the book serves as an introductory level to computer science students it is expected that once the students are already familiar with the presented contents it will enable them to understand the advanced topics in computer science such as advanced theory of computer science and computational complexity theories The chapters in this book have been organized for the students to learn and understand the main concepts of discrete mathematics for developing computer applications during the period of their studies In information technology IT and computer science fields most of information is represented in digital electronics based on the basic knowledge of discrete mathematics Therefore discrete mathematics is one of the relevant courses to support students for better learning and understanding the nature of computer science and IT It is expected that by using the materials presented in this book students should be able to write statements using mathematical language develop mathematical arguments using logic apply the concept of integers and its role in modeling and solving problems in IT and apply the concept of graph and tree for modeling and solving problems related to real situations Discrete Math / Computer Science John Schlipf,Sue Whitesides,Gary M. Haggard,2006 **Discrete Mathematics For Computer Scientists** Stein Clifford,2010-09 *A Textbook on Discrete Mathematics* C V Sastry,Rakesh Nayak,2019-12-05 This book attempts to put together all the essential topics of discrete mathematical structures for easy reference The undergraduate students of computer science and engineering postgraduate students of computer applications and computer science and engineering will find this book very useful It contains several multiple choice questions under each chapter which will be useful for those who aspire to write the GATE examination This book could be a good textbook for undergraduate students of Computer Science Computer Science and Engineering and postgraduate students of Computer Applications Connecting Discrete Mathematics and Computer Science David Liben-Nowell,2022-08-04 An approachable textbook connecting the mathematical foundations of computer science to broad ranging and compelling applications throughout the field *Discrete Mathematics with Proof* Eric Gossett,2009-06-22 A Trusted Guide to Discrete Mathematics with Proof Now in a Newly Revised Edition Discrete mathematics has become increasingly popular in recent years due to its growing applications in the field of

computer science Discrete Mathematics with Proof Second Edition continues to facilitate an up to date understanding of this important topic exposing readers to a wide range of modern and technological applications The book begins with an introductory chapter that provides an accessible explanation of discrete mathematics Subsequent chapters explore additional related topics including counting finite probability theory recursion formal models in computer science graph theory trees the concepts of functions and relations Additional features of the Second Edition include An intense focus on the formal settings of proofs and their techniques such as constructive proofs proof by contradiction and combinatorial proofs New sections on applications of elementary number theory multidimensional induction counting tulips and the binomial distribution Important examples from the field of computer science presented as applications including the Halting problem Shannon s mathematical model of information regular expressions XML and Normal Forms in relational databases Numerous examples that are not often found in books on discrete mathematics including the deferred acceptance algorithm the Boyer Moore algorithm for pattern matching Sierpinski curves adaptive quadrature the Josephus problem and the five color theorem Extensive appendices that outline supplemental material on analyzing claims and writing mathematics along with solutions to selected chapter exercises Combinatorics receives a full chapter treatment that extends beyond the combinations and permutations material by delving into non standard topics such as Latin squares finite projective planes balanced incomplete block designs coding theory partitions occupancy problems Stirling numbers Ramsey numbers and systems of distinct representatives A related Web site features animations and visualizations of combinatorial proofs that assist readers with comprehension In addition approximately 500 examples and over 2 800 exercises are presented throughout the book to motivate ideas and illustrate the proofs and conclusions of theorems Assuming only a basic background in calculus Discrete Mathematics with Proof Second Edition is an excellent book for mathematics and computer science courses at the undergraduate level It is also a valuable resource for professionals in various technical fields who would like an introduction to discrete mathematics

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