

62. a) If the departments share the equipment, then the maximum number of each type is all that is required, so we want to take the union of the multibets,  $A \cup B$ .  
 b) Both departments will use the minimum number of each type, so we want to take the intersection of the multibets,  $A \cap B$ .  
 c) This will be the difference  $B - A$  of the multibets.  
 d) If no sharing is allowed, then the university needs to purchase a quantity of each type of equipment that is the sum of the quantities used by the departments, this is the sum of the multibets,  $A + B$ .
64. Taking the maximum for each person, we have  $N(1, T) = \{0.6 \text{ Allen}, 0.9 \text{ Brian}, 0.4 \text{ Fred}, 0.8 \text{ George}, 0.7 \text{ Rita}\}$ .

## SECTION 2.3 Functions

1. a) This is not a function because the rule is not well-defined. We do not know whether  $f(3) = 3$  or  $f(3) = -3$ . For a function, it cannot be both at the same time.  
 b) This is a function. For all integers  $n$ ,  $\sqrt{n^2 + 1}$  is a well-defined real number.  
 c) This is not a function with domain  $\mathbb{Z}$ , since for  $n = 2$  (and also for  $n = -2$ ) the value of  $f(n)$  is not defined by the given rule. In other words,  $f(2)$  and  $f(-2)$  are not specified since division by 0 makes no sense.
4. a) The domain is the set of nonnegative integers, and the range is the set of digits (0 through 9).  
 b) The domain is the set of positive integers, and the range is the set of integers greater than 1.  
 c) The domain is the set of all bit strings, and the range is the set of nonnegative integers.  
 d) The domain is the set of all bit strings, and the range is the set of nonnegative integers (a bit string can have length 0).
6. a) The domain is  $\mathbb{Z}^n \times \mathbb{Z}^n$  and the range is  $\mathbb{Z}^n$ .  
 b) Since the largest decimal digit of a strictly positive integer cannot be 0, we have domain  $\mathbb{Z}^n$  and range  $\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$ .  
 c) The domain is the set of all bit strings. The number of 1's minus number of 0's can be any positive or negative integer or 0, so the range is  $\mathbb{Z}$ .  
 d) The domain is given as  $\mathbb{Z}^7$ . Clearly the range is  $\mathbb{Z}^7$  as well.  
 e) The domain is the set of bit strings. The range is the set of strings of 1's, i.e.,  $\{\lambda, 1, 11, 111, \dots\}$ , where  $\lambda$  is the empty string (containing no symbols).
8. We simply round up or down to each case.  
 a) 1      b) 2      c) -1      d) 0      e) 3      f) -2      g)  $\lfloor \frac{1}{2} + 1 \rfloor = \lfloor \frac{3}{2} \rfloor = 1$   
 h)  $\lfloor 0 + 1 + \frac{1}{2} \rfloor = \lfloor \frac{3}{2} \rfloor = 1$
10. a) This is one-to-one.      b) This is not one-to-one, since 6 is the image of both  $a$  and  $b$ .  
 c) This is not one-to-one, since  $d$  is the image of both  $a$  and  $b$ .
12. a) This is one-to-one, since if  $m_1 - 1 = m_2 - 1$ , then  $m_1 = m_2$ .  
 b) This is not one-to-one, since, for example,  $f(3) = f(-2) = 10$ .  
 c) This is one-to-one, since if  $m_1^2 = m_2^2$ , then  $m_1 = m_2$  (take the cube root of each side).  
 d) This is not one-to-one, since, for example,  $f(2) = f(4) = 2$ .

# Discrete Mathematics And Its Applications 7th Solutions

**M Carnoy**



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**Discrete Mathematics with Applications** Thomas Koshy, 2004-01-19 This approachable text studies discrete objects and the relationships that bind them. It helps students understand and apply the power of discrete math to digital computer systems and other modern applications. It provides excellent preparation for courses in linear algebra, number theory, and modern abstract algebra, and for computer science courses in data structures, algorithms, programming languages, compilers, databases, and computation. Covers all recommended topics in a self-contained, comprehensive, and understandable format for students and new professionals. Emphasizes problem-solving techniques, pattern recognition, conjecturing, induction, applications of varying nature, proof techniques, algorithm development, and correctness and numeric computations. Weaves numerous applications into the text. Helps students learn by doing with a wealth of examples and exercises. 560 examples worked out in detail. More than 3,700 exercises. More than 150 computer assignments. More than 600 writing projects. Includes chapter summaries of important vocabulary, formulas, and properties, plus the chapter review exercises. Features interesting anecdotes and biographies of 60 mathematicians and computer scientists. Instructor's Manual available for adopters. Student Solutions Manual available separately for purchase. ISBN 0124211828

**Algebra and Geometry with Python** Sergei Kurgalin, Sergei Borzunov, 2021-01-18 This book teaches algebra and geometry. The authors dedicate chapters to the key issues of matrices, linear equations, matrix algorithms, vector spaces, lines, planes, second-order curves, and elliptic curves. The text is supported throughout with problems, and the authors have included source code in Python in the book. The book is suitable for advanced undergraduate and graduate students in computer science.

**New Trends in Intelligent Software Methodologies, Tools and Techniques** Ali Selamat, Sigeru Omatu, 2017-09-15 Software is an essential enabler for science and the new economy. It creates new markets and directions for a more reliable, flexible, and robust society and empowers the exploration of our world in ever more depth, but it often falls short of our expectations. Current software methodologies, tools, and techniques are still neither robust nor reliable enough for the constantly evolving market, and many promising approaches have so far failed to deliver the solutions required. This book presents the keynote, Engineering Cyber Physical Systems, and 64 peer-reviewed papers from the 16th International Conference on New Trends in Intelligent Software Methodology, Tools, and Techniques (SoMeT\_17) held in Kitakyushu, Japan, in September 2017, which brought together researchers and practitioners to share original research results and practical development experience in software science and related new technologies. The aim of the SoMeT conferences is to capture the essence of the new state of the art in software science and its supporting technology and to identify the challenges such technology will have to master. The book explores new trends and theories which illuminate the direction of developments in this field and will be of interest to anyone whose work involves software science and its integration into tomorrow's global information society.

*A Practical Approach to High-Performance Computing* Sergei Kurgalin, Sergei Borzunov, 2019-11-10 The book discusses the fundamentals of high

performance computing The authors combine visualization comprehensibility and strictness in their material presentation and thus influence the reader towards practical application and learning how to solve real computing problems They address both key approaches to programming modern computing systems multithreading based parallelizing in shared memory systems and applying message passing technologies in distributed systems The book is suitable for undergraduate and graduate students and for researchers and practitioners engaged with high performance computing systems Each chapter begins with a theoretical part where the relevant terminology is introduced along with the basic theoretical results and methods of parallel programming and concludes with a list of test questions and problems of varying difficulty The authors include many solutions and hints and often sample code

UNDERSTANDING DISCRETE MATHEMATICS WITH APPLICATIONS IN COMPUTER SCIENCE MUZZAFA RASOOL BHAT & ASHIQ HUSSAIN HELLA,2017-04-15 **Discrete**

**Mathematics with Applications** Susanna S. Epp,1993

**Discrete Mathematics with Applications** William

Barnier,Jean B. Chan,1989 Designed to provide a strong mathematics background for computer science engineering and mathematics students Topics in the text are drawn from logic Boolean algebra combinatorics automata and graph theory A chapter on automata theory and formal languages is included along with programming notes using Pascal language constructions to show how programming and mathematics are related Logic is introduced briefly in chapter one and then expanded upon in chapter four *Forthcoming Books* Rose Arny,2003 **Discrete Mathematics with Combinatorics**

James A. Anderson,2001 This carefully organized very readable book covers every essential topic in discrete mathematics in a logical fashion Placing each topic in context it covers concepts associated with discrete mathematical systems that have applications in computer science engineering and mathematics The author introduces more basic concepts at the freshman level than are found in other books in a simple accessible form Introductory material is balanced with extensive coverage of graphs trees recursion algebra theory of computing and combinatorics Extensive examples throughout the text reinforce concepts More combinatorics algebraic structures than in most books Detailed discussion of and strong emphasis on proofs Extensive in depth presentation of topics Large selection of applied and computational problems ranging from the elementary to the more advanced More topics in probability and more statistical interpretations than other texts

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Ortega,2012-12-14 This volume contains the notes from five lecture courses devoted to nonautonomous differential systems in which appropriate topological and dynamical techniques were described and applied to a variety of problems The courses took place during the C I M E Session Stability and Bifurcation Problems for Non Autonomous Differential Equations held in

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