3 Connectedness and Compactness

3.23 Connected Spaces

Problem 3.23.1: Connectedness of X in the finer topology $\mathcal{T}'$ implies connectedness in the courser topology $\mathcal{T}$. We prove the contrapositive. Suppose there is a separation $A \cup B$ of X in $\mathcal{T}$. Then $A \cup B \in \mathcal{T} \subset \mathcal{T}'$ so X has a separation in $\mathcal{T}'$.

Problem 3.23.2: Assume $\bigcup_n A_n$ has a separation $C \cup D$. Then since each A_n is connected, either $A_n \subset C$ or $A_n \subset D$ for each n. Let k be the smallest element of $\mathbb{Z}_+$ such that $A_k \subset C$ and $A_{k+1} \subset D$. Then $A_k \cap A_{k+1} = \varnothing$, so it must be that there exists no such k. So without loss of generality, $A_n \subset C$ for each n, contradicting the fact that D is nonempty.

Problem 3.23.3: Assume $A \cup (\bigcup_\alpha A_\alpha)$ has a separation $C \cup D$. Then since each A_α is connected, either $A_\alpha \subset C$ or $A_\alpha \subset D$ for each α. Since A is connected, $A \subset C$ or $A \subset D$. Without loss of generality $A \subset C$. Then $A \cap A_\alpha = \varnothing$ for each α with $A_\alpha \subset D$. So it must be that $A_\alpha \subset C$ for each α, contradicting the fact that D is nonempty.

Problem 3.23.4: Assume $A \cup B$ is a separation of X. A and B are open, so their complements are finite. Since $B \subset X - A$, B is finite. Similarly, A is finite. But then X is the union of two finite sets and hence finite, contradicting the fact that X is infinite.

Problem 3.23.5: It is trivial to show that one-point sets are always connected, regardless of topology. Suppose X has the discrete topology and $Y \subset X$ has more than one element. If $x \in Y$, then $\{x\} \cup (Y - \{x\})$ is a separation of Y. Thus X is totally disconnected. The converse does not hold. Refer to Example 4 in Section 23 of the text.

Problem 3.23.6: We begin by noting that for all sets A, $\overline{A} = \text{int } A \cup \text{Bd } A$. Now, assume C does not intersect Bd A. Since C intersects A and $X - A$, C intersects the closures $\overline{A}$ and $\overline{X - A}$. Since $\overline{A} = \text{int } A \cup \text{Bd } A$ and $\overline{X - A} = \text{int } X - A \cup \text{Bd } A$, it follows that C intersects the closures only at the interiors. Since $X = \text{int } A \cup \text{int } X - A \cup \text{Bd } A$, it follows that $C = (C \cap \text{int } A) \cup (C \cap \text{int } X - A)$. Since C intersects both of these sets, neither is empty. But then $(C \cap \text{int } A) \cup (C \cap \text{int } X - A)$ is a separation of C, contradicting the connectednedd of C. Thus C intersects Bd A.

Problem 3.23.7: $\mathbb{R}_\ell$ is not connected. Consider the separation $\mathbb{R} = (-\infty, 0) \cup [0, -\infty)$.

Problem 3.23.8: As in Example 6 in the text, we may consider $\mathbb{R}^\omega$ as the union of the set of all bounded sequences and the set of all bounded sequences. This set is open since if $\mathbf{a}$ is in $\mathbb{R}^\omega$, then the open ball $B(\mathbf{a}, \frac{1}{2})$ in the uniform topology consists entirely of bounded sequences or unbounded sequences depending on whether $\mathbf{a}$ is bounded or not. Thus we have come up with a separation of $\mathbb{R}^\omega$, so the set is not connected.

Problem 3.23.9: For $x \in X$, let $\ell_x = \{x\} \times Y$, and for $y \in Y$, let $\ell_y = X \times \{y\}$. Notice that both types of sets are connected since they are homeomorphic to either X or Y. Notice further that $(X \times Y) - (A \times B) = (\bigcup_{a \in X - A} \ell_a) \cup (\bigcup_{b \in Y - B} \ell_b)$. Fix $x \in X - A$. Then for each $b \in Y - B$, ℓ_b intersects ℓ_x. Then, by Problem 3.23.3, $\ell_x \cup (\bigcup_{b \in Y - B} \ell_b)$ is connected. Denote this set by C. Notice that for all $a \in X - A$, ℓ_a intersects C. Thus, again by Problem 3.23.3, $(X \times Y) - (A \times B) = (\bigcup_{a \in X - A} \ell_a) \cup (\bigcup_{b \in Y - B} \ell_b) = C \cup (\bigcup_{a \in X - A} \ell_a)$ is connected.

Problem 3.23.10: (a) Notice that X_K is homeomorphic to $\prod_{k \in K} X_k$ whichis connected by Theorem 23.6.

Munkres Solutions Chapter 3

Roshan Trivedi

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Parallel Computing Works! Geoffrey C. Fox,Roy D. Williams,Guiseppe C. Messina,2014-06-28 A clear illustration of how parallel computers can be successfully appliedto large scale scientific computations This book demonstrates how avariety of applications in physics biology mathematics and other scienceswere implemented on real parallel computers to produce new scientificresults It investigates issues of fine grained parallelism relevant forfuture supercomputers with particular emphasis on hypercube architecture The authors describe how they used an experimental approach to configuredifferent massively parallel machines design and implement basic systemsoftware and develop algorithms for frequently used mathematicalcomputations They also devise performance models measure the performancecharacteristics of several computers and create a high performancecomputing facility based exclusively on parallel computers By addressingall issues involved in scientific problem solving Parallel ComputingWorks provides valuable insight into computational science for large scaleparallel architectures For those in the sciences the findings reveal theusefulness of an important experimental tool Anyone in supercomputing andrelated computational fields will gain a new perspective on the potentialcontributions of parallelism Includes over 30 full color illustrations   **Proceedings of the Fifth Distributed Memory Computing Conference: Applications** David W. Walker,Quentin F. Stout,1990   **Applied State Estimation and Association** Chaw-Bing Chang,Keh-Ping Dunn,2023-08-15 A rigorous introduction to the theory and applications of state estimation and association an important area in aerospace electronics and defense industries Applied state estimation and association is an important area for practicing engineers in aerospace electronics and defense industries used in such tasks as signal processing tracking and navigation This book offers a rigorous introduction to both theory and application of state estimation and association It takes a unified approach to problem formulation and solution development that helps students and junior engineers build a sound theoretical foundation for their work and develop skills and tools for practical applications Chapters 1 through 6 focus on solving the problem of estimation with a single sensor observing a single object and cover such topics as parameter estimation state estimation for linear and nonlinear systems and multiple model estimation algorithms Chapters 7 through 10 expand the discussion to consider multiple sensors and multiple objects The book can be used in a first year graduate course in control or system engineering or as a reference for professionals Each chapter ends with problems that will help readers to develop derivation skills that can be applied to new problems and to build computer models that offer a useful set of tools for problem solving Readers must be familiar with state variable representation of systems and basic probability theory including random and stochastic processes   **Aspects of Combinatorics and Combinatorial Number Theory** Sukumar Das Adhikari,2002   **Protein Analysis and Purification** I.M. Rosenberg,2013-03-14 This book is designed to be a practical progression of experimental techniques an investigator may follow when embarking on a biochemical project The protocols may be performed in the order laid out or may be used inde pendently The aim of the book

is to assist a wide range of researchers from the novice to the frustrated veteran in the choice and design of experiments that are to be performed to provide answers to specific questions The manual describes standard techniques that have been shown to work as well as some newer ones that are beginning to prove important By following the promi nently numbered steps you can work your way through any protocol whether it s a new technique or a task you ve done before for which you need a quick review or updated methodology This manual will assist the experimentalist in designing properly controlled experiments There will be no advice for dealing with specific pieces of equip ment other than encouragement to read the manual if you can find it Through out all manipulations try to be objective Be on the lookout for unexpected findings You will learn the most from unexpected results and they are often the beginning of the next project It is never possible to record too much in your lab notebook Do not get discouraged Remember things will not always run smoothly **Discrete Mathematics** Sriraman Sridharan,R. Balakrishnan,2019-07-30 Conveying ideas in a user friendly style this book has been designed for a course in Applied Algebra The book covers graph algorithms basic algebraic structures coding theory and cryptography It will be most suited for senior undergraduates and beginning graduate students in mathematics and computer science as also to individuals who want to have a knowledge of the below mentioned topics Provides a complete discussion on several graph algorithms such as Prims algorithm and Kruskals algorithm for sending a minimum cost spanning tree in a weighted graph Dijkstras single source shortest path algorithm Floyds algorithm Warshalls algorithm Kuhn Munkres Algorithm In addition to DFS and BFS search several applications of DFS and BFS are also discussed Presents a good introduction to the basic algebraic structures namely matrices groups rings fields including finite fields as also a discussion on vector spaces and linear equations and their solutions Provides an introduction to linear codes including cyclic codes Presents a description of private key cryptosystems as also a discussion on public key cryptosystems such as RSA ElGamal and Miller Rabin Finally the Agrawal KayalSaxena algorithm AKS Algorithm for testing if a given positive integer is prime or not in polynomial time is presented the first time in a textbook Two distinguished features of the book are Illustrative examples have been presented throughout the book to make the readers appreciate the concepts described Answers to all even numbered exercises in all the chapters are given **Metaheuristics for Machine Learning** Mansour Eddaly,Bassem Jarboui,Patrick Siarry,2023-03-13 Using metaheuristics to enhance machine learning techniques has become trendy and has achieved major successes in both supervised classification and regression and unsupervised clustering and rule mining problems Furthermore automatically generating programs via metaheuristics as a form of evolutionary computation and swarm intelligence has now gained widespread popularity This book investigates different ways of integrating metaheuristics into machine learning techniques from both theoretical and practical standpoints It explores how metaheuristics can be adapted in order to enhance machine learning tools and presents an overview of the main metaheuristic programming methods Moreover real world applications are provided for illustration e g in clustering big data machine health monitoring

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Chapter I provides the basic mathematical ideas used in later chapters Chapters II and III deal with linear programming including the special cases of transportation and assignment as well as their applications such as the Trim Problem Chapters IV and V discuss the theory of queues and describe the general stationary properties of the single channel queue and of simple queues in series and in parallel These chapters also examine some transient properties of queues Chapter VI focuses on machine interference which is an aspect of queueing theory while Chapter VII deals with the important and mathematically subject of Stock Control or Inventory Theory This book is intended primarily to graduate mathematicians business manages and industrial leaders   Topologies and Uniformities Ioan M. James,2013-06-29 This book is based on lectures I have given to senior undergraduate and graduate audiences at Oxford and elsewhere over the years My aim has been to provide an outline of both the topological theory and the uniform theory with an emphasis on the relation between the two Although I hope that the prospective specialist may find it useful as an introduction it is the non specialist I have had more in mind in selecting the contents Thus I have tended to avoid the ingenious examples and counterexamples which often occupy much of the space in books on general topology and I have tried to keep the number of definitions down to the essential minimum There are no particular prerequisites but I have worked on the assumption that a potential reader will already have had some experience of working with sets and functions and will also be familiar with the basic concepts of algebra and analysis An earlier version of the present book appeared in 1987 under the title Topo logical and Uniform Spaces When the time came for a new edition I came to the conclusion that rather than just making the necessary corrections it would be better to make more substantial alterations Parts of the text have been rewritten and new material including new diagrams added   **Introduction to Linear Algebra** Gordon Mills,2017-07-12 This is the first book on linear algebra written specifically for social scientists It deals only with those aspects of the subject applicable in the social sciences and provides a thorough understanding of linear algebra for those who wish to use it as a tool in the design execution and interpretation of research Linear mathematical models play an important role in all of the social sciences This book provides a step by step introduction to those parts of linear algebra which are useful in such model building It illustrates some of the applications of linear analysis and helps the reader learn how to convert his formulation of a social science problem into algebraic terms The author covers matrix algebra computational methods linear models involving discrete variables and clear complete explanations of necessary mathematical concepts Prior knowledge of calculus is not required since no use is made of calculus or of complex numbers A novel feature of the mathematical content of the book is the treatment of models expressed in terms of variables which must be whole numbers integers The book is distinguished by a step by step exposition that allows the reader to grasp quickly and fully the principles of linear algebra All of the examples used to illustrate the text are drawn from the social sciences enabling the reader to relate the subject to concrete problems in his field Exercises are included as a necessary part of the text to develop points not covered in the text and to provide practice in the algebraic

formulation of applied problems An appendix gives solutions or hints for selected exercises **Multiple-target Tracking with Radar Applications** Samuel S. Blackman,1986 A Passage to Modern Analysis William J. Terrell,2019-10-21 A Passage to Modern Analysis is an extremely well written and reader friendly invitation to real analysis An introductory text for students of mathematics and its applications at the advanced undergraduate and beginning graduate level it strikes an especially good balance between depth of coverage and accessible exposition The examples problems and exposition open up a student s intuition but still provide coverage of deep areas of real analysis A yearlong course from this text provides a solid foundation for further study or application of real analysis at the graduate level A Passage to Modern Analysis is grounded solidly in the analysis of R and Rn but at appropriate points it introduces and discusses the more general settings of inner product spaces normed spaces and metric spaces The last five chapters offer a bridge to fundamental topics in advanced areas such as ordinary differential equations Fourier series and partial differential equations Lebesgue measure and the Lebesgue integral and Hilbert space Thus the book introduces interesting and useful developments beyond Euclidean space where the concepts of analysis play important roles and it prepares readers for further study of those developments

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