

Munkres - Topology - Chapter 1 Solutions

Section 3

Problem 3.2. Let C be a relation on a set A . If $A_0 \subseteq A$, define the restriction of C to A_0 to be the relation $C \cap (A_0 \times A_0)$. Show that the restriction of an equivalence relation is an equivalence relation.

Solution: Let C' be the restriction of C to A_0 . As an initial matter, clearly if $(a, b) \in C'$, then $(a, b) \in C$. Further, if $(a, b) \in C$ and $a, b \in A_0$, then $(a, b) \in C'$. We will now show that the C' is an equivalence relation.

Let $x_0 \in A_0$. Since $(x_0, x_0) \in C$, it follows that $(x_0, x_0) \in C'$. Therefore C' is reflexive.

Let $(x_1, y_1) \in C'$. It follows that $(y_1, x_1) \in C$, so $(y_1, x_1) \in C'$. Therefore, C' is symmetric.

Let $(x_2, y_2), (y_2, z_2) \in C'$. It follows that $(x_2, y_2) \in C$, so $(x_2, z_2) \in C$. Therefore, C' is transitive. Since all the necessary properties are met, C' is an equivalence relation.

Problem 3.4. Let $f : A \rightarrow B$ be a surjective function. Let us define a relation on A by setting $a_0 \sim a_1$ if $f(a_0) = f(a_1)$. (a) Show that this is an equivalence relation. (b) Let A^* be the set of equivalence classes. Show there is a bijective correspondence of A^* with B .

Solution: Part (a) Suppose R is the relation of interest. Let $a_0 \in A$. Clearly $f(a_0) = f(a_0)$, so $a_0 \sim a_0$. It follows that R is reflexive. Now let $a_0, a_1 \in A$ where $a_0 \sim a_1$. Since $f(a_0) = f(a_1)$ implies that $f(a_1) = f(a_0)$, we infer that $a_1 \sim a_0$. It follows that R is symmetric. Finally, let $a_0, a_1, a_2 \in A$ where $a_0 \sim a_1$ and $a_1 \sim a_2$. We see that $f(a_0) = f(a_1) = f(a_2)$, so $a_0 \sim a_2$. Therefore, R is transitive. Accordingly, R is an equivalence relation.

Part (b) Let \mathcal{A} be the collection of equivalence classes of A of R , where if $x \in A$, there is an $E_x \in \mathcal{A}$ such that $E_x = \{y \in A : x \sim y\}$. Let $g : \mathcal{A} \rightarrow B$ where $g(E_x) = f(x)$. First we will show that g is injective. Let $E_x, E_y \in \mathcal{A}$ and $g(E_x) = g(E_y)$. It follows that $f(x) = f(y)$, so $x \in E_x$ and $x \in E_y$. Since E_x and E_y are not disjoint, we infer from Lemma 3.1 that $E_x = E_y$. Therefore, g is injective.

Now let $b \in B$. Since f is surjective, there is an $a \in A$ such that $f(a) = b$. Therefore, $g(E_a) = f(a) = b$. Accordingly, g is surjective, from which it follows that g is a bijection from \mathcal{A} to B .

Problem 3.10. (a) Show that the map $f : (-1, 1) \rightarrow \mathbb{R}$ of Example 9 is order preserving. (b) Show that the equation $g(y) = 2y/[1 + (1 + 4y^2)^{1/2}]$ defines a function $g : \mathbb{R} \rightarrow [-1, 1]$ that is both a left and a right inverse for f .

Solution: Part (a) Let $A = (-1, 1)$. The function f is order preserving if $a_0 < a_1$ implies that $f(a_0) < f(a_1)$ for all $a_0, a_1 \in A$. Now let $x, y \in A$. We may assume without loss of generality that $x < y$. We then have:

$$f(x) - f(y) = \frac{x - y}{(1 - x^2)(1 - y^2)} < 0,$$

because $1 - x^2, 1 - y^2 > 0$ for all $x, y \in A$. It follows that $f(x) < f(y)$. The function f is therefore order preserving.

Part (b) This problem a straightforward (but annoying) substitution of f and g into each other. let $x \in A$. We then have:

$$(g \circ f)(x) = \left(\frac{2x}{1 - x^2} \right) \left(\frac{1}{1 + [1 + 4x^2/(1 - x^2)^2]^{1/2}} \right) = \frac{2x}{(1 - x^2) + (1 + x^2)} = x,$$

showing that g is a left inverse of f .

For $(f \circ g)(y)$, we can again do the substitution and show (through a lot of algebra) that $(f \circ g)(y) = y$. For $y \in \mathbb{R}$, we have:

$$(f \circ g)(y) = \left(\frac{2y}{1 + (1 + 4y^2)^{1/2}} \right) \left(\frac{1}{1 - 4y^2/[1 + (1 + 4y^2)^{1/2}]^2} \right) = \frac{2y(1 + (1 + 4y^2)^{1/2})}{2(1 + (1 + 4y^2)^{1/2})} = y,$$

showing that g is a right invoice for f .

Problem 3.11. Show that an element in an ordered set has at most one immediate successor and at most one immediate predecessor. Show that a subset of an ordered set has at most one smallest element and at most one largest element.

Munkres Solutions Chapter 1

Steven H. Strogatz



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Nonlinear Dynamics and Chaos with Student Solutions Manual Steven H. Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors

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 applied to large scale scientific computations This book demonstrates how a variety of applications in physics biology mathematics and other sciences were implemented on real parallel computers to produce new scientific results It investigates issues of fine grained parallelism relevant for future supercomputers with particular emphasis on hypercube architecture The authors describe how they used an experimental approach to configure different massively parallel machines design and implement basic system software and develop algorithms for frequently used mathematical computations They also devise performance models measure the performance characteristics of several computers and create a high performance computing facility based exclusively on parallel computers By addressing all issues involved in scientific problem solving Parallel Computing Works provides valuable insight into computational science for large scale parallel architectures For those in the sciences the findings reveal the usefulness of an important experimental tool Anyone in supercomputing and related computational fields will gain a new perspective on the potential contributions of parallelism Includes over 30 full color illustrations

Proceedings of the Fifth Distributed Memory Computing Conference: Applications David W. Walker, Quentin F. Stout, 1990

Books in Print, 1982

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

Design and Analysis of Modern Tracking Systems Samuel S. Blackman, Robert Popoli, 1999 Here s a thorough overview of the state of the art in design and implementation of advanced tracking for single and multiple sensor systems This practical resource provides modern system designers and analysts with in depth evaluations of sensor management kinematic and attribute data processing data association situation assessment and modern tracking and data fusion methods as applied in both military and non military arenas

Applied State Estimation and Association Chaw-Bing Chang, Keh-Ping Dunn, 2016-07-08 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

Metaheuristics for Machine Learning Mansour Eddaly, Bassem Jarbou, 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 underwater sonar targets and banking

Using the Borsuk-Ulam Theorem Jiri Matousek, 2008-01-12 To the uninitiated algebraic topology might seem fiendishly complex but its utility is

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web dec 15 2009 this sounds stupid but is there a diagram somewhere that shows what each of the relays in the fuseboxes do i am specifically looking for the headlight relay we recently had the low beams both stop working in our 2003 and i figured it was either the relay or the switch

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