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Module Code: MATH-204
Module Title: Mathematics B-IV [**Metric Spaces & Group Theory**]
Module Rating: 4 Cr. Hours

Metric Spaces

- Definition and various examples of metric spaces
- Holder's inequality, Cauchy-schwarz and minkowski's inequality
- Open and closed balls
- Neighborhoods
- Open and closed sets
- Interior, Exterior and boundary points
- Limit points, Closure of a set
- Convergence in metric spaces, Cauchy sequences
- Continuity in metric spaces
- Inner product and norm
- Orthonormal sets and basis
- The Gram-Schmidt process

Group Theory

- Binary operations
- Definition, Examples and formation of groups
- Subgroups
- Order of group, Order of an element
- Abelian groups
- Cyclic groups, Cosets, Lagrange's theorem
- Permutation, Even and odd permutations
- Symmetric groups
- Introduction to rings and fields

Recommended Books

1. Micheal, O. Searcoid, *Metric Spaces*, Springer, 2007
2. E. Kreyszig, *Introduction to Functional Analysis with Applications*, John Wiley and Sons, 1978
3. W.A. Sutherland, *Introduction to Metric and Topological Spaces*, Clarendon Press Oxford, 1975
4. E.T. Copson, *Metric Spaces*, Cambridge University, Press, 1968
5. G.F. Simmons, *Introduction to Topology and Modern Analysis*, McGraw Hill Company, 1963
6. I.N. Herstein, *Topics in Algebra*, Xerox Publishing Company, 1964.
7. Vivek Sahai and Vikas Bist, *Algebra*, Narosa Publishing House, 1999
8. P.B. Bhattacharya, S.K. Jain and S.R. Nagpaul, *Basic Abstract Algebra*, C.U.P., 1986

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several books, including Schaum's Outline of Boolean Algebra and Switching Circuits. His principal area of research is mathematical logic and set theory.. SCHAUM'S OUTLINE SERIES ... General topology, also called point set topology, has recently become an essential part of the ... chapters present the required concepts of set theory, the fourth chapter treats of the ... (i) SE2S (ii) SC2S (iii) {S} E 2 (iv) {S}C2S. SET OPERATIONS. 34. Let $A = \{1,2,3, \{1,2,3\}\}$, $B = \{1, 2, \{1,2\}\}$.. SCHAUM'S OUTLINE OF ... Set. 1.4 Subsets. 1.5 Venn Diagrams. 1.6 Set Operations. 1.7 Alge- ... SETS AND ELEMENTARY PROPERTIES OF THE REAL ... 34. 2.1 Introduction. 2.2 Real Number System R. 2.3 Order and Inequalities.. Schaum's outline of theory and problems of beginning statistics / ... this diverse group of users, examples and problems in this outline are chosen from many different ... (a) The average points per game, percent of free throws made, average ... 24. 25. 29. 30. 34. FREQUENCY DISTRIBUTION FOR QUANTITATIVE DATA:.. S. Lipschutz, Schaum's Outline of Set Theory and Related Topics, McGraw- ... www.math.clemson.edu/~mjs/courses/misc/settheory.pdf.. S. Lipschutz, Schaum's Outline of Set Theory and Related Topics (Second. Ed.). ... http://www.math.uiuc.edu/~henson/papers/basics.pdf ... 34. III : Elementary constructions on sets. In this unit we cover the some ... entirely free of contradictions?. Schaum's Outline Series ... will meet your requirements or that its operation will be uninterrupted or error free. ... We then have three chapters on graph theory: graphs, directed ... This is followed by sets of solved and supplementary problems. ... 34. Supplementary Problems. 40. CHAPTER 3. Functions and Algorithms. 43.. Cover of Schaum's Outline of Differential Equations, Fourth Edition ... View subsections 8 Linear Differential Equations: Theory of Solutions ... Download PDF. Cite; Share ... $W = 6e2x$; the set is linearly independent. ... 14.30. binary://mheaeworks/6af34bdc799cbe62/ ... Sign up for or log into your free Hypothesis account.. The material in this eBook also appears in the print version of this title: 0-07-140327-2. ... The co-author wishes to thank the staff of the Schaum's Outlines group, ... 34. PART II. NUMBER SYSTEMS. Chapter 3. The Natural Numbers. 37.. Buy Schaum's Outline of Set Theory and Related Topics on Amazon.com ✓ FREE SHIPPING on qualified orders.. SCHAUM'S OUTLINE OF. THEORY AND PROBLEMS. OF. SET THEORY and Related Topics. BY. SEYMOUR LIPSCHUTZ, Ph.D. Professor of Mathematics.. Spiegel, M m y R. Schaum's outline of theory and problems of college algebra ... The positive rational numbers include the set of natural numbers. Thus the ... $(4(3x + Y)(4X - 2Y) = (3x)(4x) + W(4X) + (34(-2Y) + (r)(-2Y). = 12x2 - 2xy$... After drying, the moisture-free residue contains 71.0% carbon. Determine Schaum's outline of theory and problems of basic circuit analysis p. c.m. (Schaum's ... Some atoms can also "capture" free electrons to gain a surplus of negative SCHAUM'S. ouTlines. SET THEORY. AND RELATED TOPICS. Second Edition ... tical Induction. 1.12 Axiomatic Development of Set Theory. Chapter 2. 34.. (3000 Solved Problems Book) Free Download schaum outline abstract algebra ... Read Download Schaums Outline Of Group Theory PDF – PDF Schaum's Outline ... Scientists Schaums Outline Advanced Mathematics Engineers chapter 34 schaum's outline theory and problems of probability pdf, schaum's outline theory and problems of electric circuits, schaum's outline of group ...

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