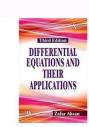
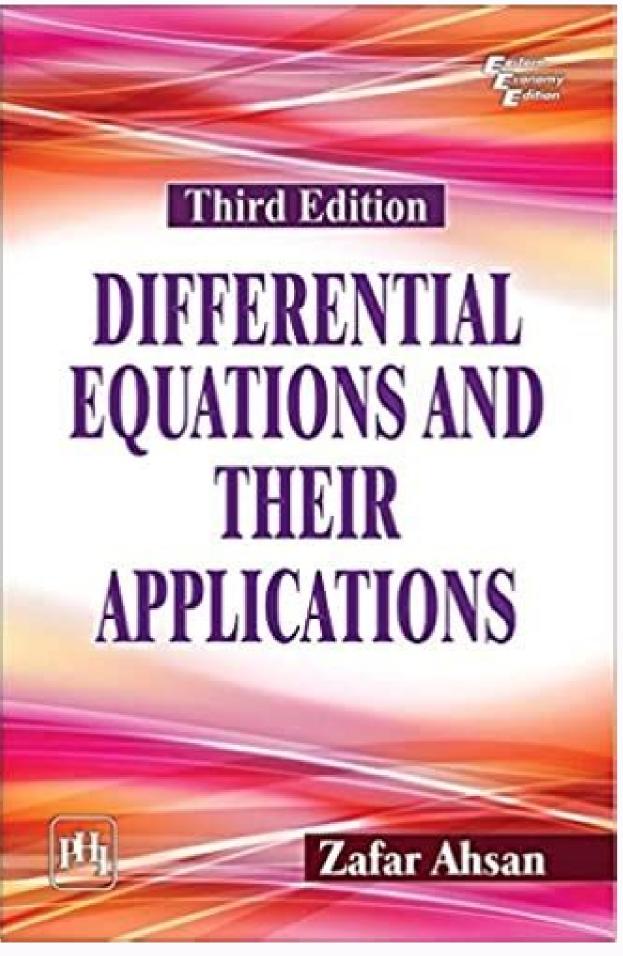
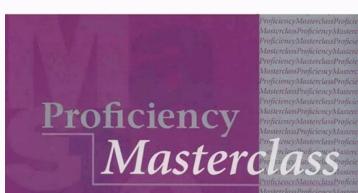
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Analysis: limit, continuity (with uniform continuity) and differentiability of a realistic function of a true variables), medium value theorems for derivatives and functions, the Taylor series, the number of nits of a complex number, the analytical function of a complex variable, integral boundary, residual. Operators of difference â^ †, î, â^ ‡, Âu, operator and relationships of displacement between them. Kapur and M. Finney, Calculation and analytical geometry, Addison-Wesley Publications, 1999, SC, Semestre-I (Main and Subsidy) Course-MAT1101: matrices (2) credits) to be effective from June 2012 Unit-1: special types of matrix, degree of matrix, degree of matrix, degree of matrix, homogeneous linear equations and not homogeneous. Burton Theory of Elementary Numbers, Allyn and Bacon Inc, 2006. Prasanna Chandra, Investment Analysis and Portfolio Management, Tata McGraw Hill, 2008. Unit-2: Theorem of algebra, multiple roots and tests for multiplicity, relationship between roots and coefficients, imaginary roots of an equation with real coefficients. Gordon Fuller, Analytic Geometry, 5th Edition, Addison-Wesley, 1979. W Brown, variable and applications, Mc Graw Hill Publishing Company. Unit 2: Differences forward and backward interpolation formula, LaGrange interpolation formula with error analysis, Gauss and Stirling's central interpolation formulas, equations solution in a variable for a var Publishing Company, 2005. Co., 1994 2. 9. Chand & Co., 2005. Chand and Co., 2005. Sc. Semester-IV (Principal Mathematics) Course-MAT1402C10: Integral Calculus and Differential Equations (4 Credits) To be effective from December 2013 Unit-1: Iterated integrals and double integral, Change of order, Evaluation by using transformations, Applications to area and volume, Line integrals, Green¢ÃÂÂs theorem and its applications. You're Reading a Free Preview Page 4 is not shown in this preview. Herstein, Topics in Algebra, Vikas Publishing house Pvt. Sc. Semester-III (Principal Mathematics) Course-MAT1302C08: Advanced Calculus (4 Credits) To be effective from June 2013 Unit-1: Domain and range of a function of several variables, Limit, Continuity and Partial derivatives of order two, Differentiability, Mean value theorem, Total differentials, Approximation, Chain rule. Library functions, Header files. Unit-2: Euler¢ÃÂÂs theorem on homogeneous function and its converse, Implicit differentiation, Jacobian formulas, Taylor¢ÃÂÂs theorem, Maxima-Minima, Lagrange¢ÃÂÂs method of undetermined multiplier, Tangent plane and normal line to a surface, Tangent line to a space curve, Envelopes of plane curves and of family of surfaces, Directional derivatives, Gradient, Curl, Divergence. R. 8. Sc. Semester-VI (Principal Mathematics) Course-MAT1607E22: Mathematical Modeling (Optional Paper) (4 Credits) To be effective from December 2014 Unit-1: Introduction: motivation and classification of mathematical models, population models: Malthusian and logistic model, Smith¢ÃÂÂs model, Gompertz growth model, difference equation for logistic model for an unisolated population, derivation of the logistic model with delay, a simple model of predattore. Sc. Semestre-IV (subsidy mathematician) Lecture-MAT1403S09: linear programming and numerical analysis (4 credits) effective from December 2013 Unit-1: general discussions about linear programming problems, convex Set, linear programming problems, linear programming problems, convex Set, linear and its computational procedure, the artificial basic technique, the transport problem, the assignment problem, SEN, Computer-based numerical algorithm, East-West Press, 1976. Mohan, Optimization Methods in Operational Research and System Analysis, New Age International Publications, 1996. S. Sc. Semestre-III, IV (Elective Mathematics (Open))) Course- MAT1009E08: Graphics Theory (2 credits) to be effective from June 2013 Unit-1: definition and elementary properties of graphs, isomorphism of graphs, believed tree, centers in a tree, rooted tree and binary. Declarations and blocks. Results on Linear Congruence Equations, Congruence Equations, Congruence Equations, World Scientific, 1998 7. Richard Goldberg, Methods of Real Analysis, Oxford and IBH Publishing Co. Pvt. Sc. Semestre-III, IV (Elective Mathematics (Open)) Course MAT1008E07: Discreet Mathematics and its applications (2 credits) will be effective from June 2013 Unit-1: induction and recursion: Induction math, defined in a recursive way, solving the recurrence relationships. Control statements: If-Else, Switch, break, continue, Goto. Goth. Values of authors and authorization vectors of a matrix, orthogonality of auto-car carriers associated with distinct authorization vectors of a true symmetric matrix, diagonalization of a symmetric matrix, application to the reductions of the quadrico test). Unit-2: discontinuity, monotonous functions and discontinuity types, fixed point and contraction principle, maximum and local minimum, generalized average value theorem, derivative continuity, metric space], [BAC and completeness, equicontinuous families and Arzela theorem, derivative continuity, metric space], [BAC and completeness, equicontinuous families and Arzela theorem, derivative continuity, metric space], [BAC and completeness, equicontinuous families and Arzela theorem. Chand & Co. Ltd, 1996 3. H. Erwin Kreyszig, Advanced Engineering Mathematics, John Wiley and Sons Inc., 1983. permutations and combinations, probability theory, repeated experiments, counting and probability, euclide algorithm, public key Cryptosystem RSA. Unit-2: complex number field, graphic representation of subsets of C, geometric meaning of complex functions î2 +z, zî±, z, z, z 1,) re (z,) im (z, z and î2î ± + Z. Unit-2: atoms of a boolean algebra and its properties, uniqueness of finite boolean algebras (without proof), Boolean expressions and Boolean functions, logical applications, gates and digital circuits. Sc. SC. SEMETER-V (Principal Mathematics) Course -MAT1502C12: Analysis-I (4 credits) to be effective from June 2014 Unit-1: ordered relationship and ordered set, lub and GLB of an ordered set, lub and GLB property, gaps in the system of rational numbers, minimum upper limit Properties, ordered field R (to be assumed without proof), property archimedea of r, dense property of Q in r, existence of the root of positive reals, systems of extended real numbers, c is not an ordered field, f and their properties, finished sets, numberable sets, numberable sets, matrices (2 credits) to be effective from June 2012 Unit-1: introduction to complex numbers, matrices, addition and multiplication of matrices, special types of matrices and matrices Their properties, determinants of order 2, 3 and 4, reverse of a matrix, Cayley-Hamilton theorem (without proof). Results on linear congruence equations, Chinese theorem, phifunction eulero, examples, divisibility tests. Rajesh Kothari and Bobby Dutta, Contemporary Financial Management, Macmillan - SC. Semestre-III, IV (elective mathematics (open))) Course- MAT1007E06: Boolean Algebra and its applications (2 credits) will be effective from June 2013 Unit-1: Binary relationship, property of the binary relationship, partially sorted set, Hasse diagram, Cots, chains, principle of duality, basic properties of the algebra systems defined by grids, distribution and complete reticle, boolean algebra. Sc. Semestre-v (main mathematics) Course-MAT1504C14: numerical analysis and computer programming-I (4 credits) to be effective from June 2014 Unit-1: rounding, truncating and other errors, solution of an equation in a variable of Bisection Method, method of Regula Falsi, Raphson method and method of general iteration, convergence and order of convergence for these methods. Shah, Introductory Calculation, Acharya Book Depot, 1980 5. Unit-2: Linear algebra: vector spaces, linear transformations, matrices. Michael Artin, Algebra, Prentice Hall of India, 1994. Applications of higher order equations: simple pendulum, damp and forced movements, microeconomic market models, price and supply model. 23 3.Introduction to risk management and insurance, Preetice-Hall of India, 2007. GUPTA GUPTA T. sc. Semestre-I (elective mathematics) Course-MAT1104: matrices (2 credits) to be effective from June 2012 Unit-1: special types of matrices and their properties, elementary operations and elementary operations and elementary matrices, matrix grade, matrix, homogeneous linear equations. Unit-2: artificial basic technique, revised simplex method, duality theory for double non-symmetrical and symmetrical problems, transport problems, transport problem, methods to find a basic feasible solution: 4th PLAYINGMathematics of insurance 4 9 MAT1609E24 Mechanical 4 10 MAT1610E25 Research of operations: Game and queueing theory 4 Semester - III (Subsidiary) 1 MAT1303S07 Linear Algebra, Sequence and Series 4 2 MAT1304S08 Advanced Calculus 4 Semester - IV (Subsidiary) 1 MAT1403S09 Linear Programming and Numerical Analysis 4 2 MAT1404S10 Integral calculator and differential equations 4 3. Shankar Rao, Numerical Analysis, New International Age Pvt. Linear transformation space, the composition of linear transformations, the matrix associated with a linear map and linear map associated with a matrix. I. Simple and formatted input/output functions. Unit-2: Arguments and Closed Sets, Perfect Set, Set Dense, Closure of a set, Set Compact in a metric space and their properties, Compactness of k -cell, Theorem of Heine-Borelshing House Puierstrass, Set of perfect space in set meters Numerical Method, Trapezodal Rule, Programs for the expansion of the Maclaurin series for xsin, xcos and )exp(x. Rana, Introduction to Linear Algebra, Ane Books Pvt. Hildebrand, Introduction to Numerical Analysis, Tata Mc To be effective from December 2012 Unit-1: Class of equivalence and equivalence and equivalence relationship, congruence module n, Definition and examples of groups, Primary properties of a group, finite groups and their tables, Subgroups, centralizers and their applications, Springer, 1993. 3. Fraleigh, a first course in Abstract Algebra, Pearson Education Inc, 2006. Co., 1997. Annuity and its types. Sheldon M. Kanti Swaroop, Man Mohan and P.K. Gupta, Operations Research, Sultan Chand and Sons, 2005. Narsingh Deo, Theory of Graphics with Applications to Engineering and Computer Science, Prentice-Hall of India, 1993. SC. Semestre-II (main and subsidiary mathematician) Course-MAT1203: geometry (3 credits) to be effective from December 2012 unit-1: polar coordination system, relations between polar coordinates and Cartesian, graphs of polar equations, aids in polar equations, polar equations, polar equations of lines, circles and conicals, equation of a sphere through a certain circle, tangent plane to a sphere. Jim Mc Menamin, Financial Management: An Introduction, Oxford University Press, 2000. Homogeneous equations, inverse operators, method to solve uneven equations, inverse operators, method to solve homogeneous equations, method to Ltd., 1992. Solberg, Principles and Operational Research Practices, John Wiley and Sons, 2000. Limaye, a course in real calculation and analysis, Springer, 2006. Dennis G.Zill and Michael R. 5 Rxâ and Mx) 1 (+,) 1log (x + for 1 ||

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