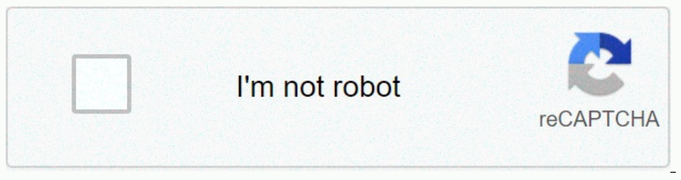

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Metric Space Topology was taught: Metric fields, open and closed sets, Cauchy sequences and integrity, inseparable areas, compact and connected clusters, compactness and boundary points of infinite subsets and arrays, Heine-Borel and Bolzano-Weierstrass theorems, preliminary images of various settures in the field of continuous images and continuous functions, equality and compactness, Arzela-Ascolli theorem, normed and Banach areas, narrowing mapping theorem, presence and a uniquency of solutions to ordinary differential equations. Trigonometric Series: Periodic functions, orthogonal and orthoormal functions, orthogonality of trigonometric functions, convergences for continuous functions in the direction of the Fourier series and parts, differentiation and integration of the Fourier series, Gibbs phenomenon, Fourier series and average square convergence, solutions of classic partial differential equations with the Fourier series. Approximateity of Continuous Functions: Uniform approach by polynomials, Weierstrass theorem and inseparableness of the area of continuous functions in a compact range, approximate of derivatives, The theorem of Stone-Weierstrass. Functions of Various Variables: Linear algebra, directional derivatives, partial derivatives and total differential, gradient, chain rule, equality of mixed partial derivatives, Taylor series of various sizes, average value theorem, extremity, reverse and implicit function theorems, multidimensional surfaces and their representations, conditional extremity and lagrange multipliers review. Multi-Variable Integration: Riemann integrals of various sizes, integrable functions, Fubini theorem, integrals with parameters, composite mappings, union sections, exchange of variables, incorrectly multiple integrals, Fourier integrals. Integration on Manifolds: Differential forms and their derivatives, Poincare lemma, Stokes' rectangular theorem, manifolds and graphics, orientation and boundary, Manifolds, line integrals, surface integrals, volumes, classical vector analysis, Green formula, Gauss' and Stokes' theorems, electromagneticism applications. Click here to find the alternative more intuitive integrals of differential forms. Daily notes are deposited here. Check here for my notes on Mathematical Analysis I. The following textbooks contain some of the materials presented in this course: T.M. Apostol, Calculus, Vol. 1: Single Variable Calculus with Linear Algebra Input, Wiley. T.M. Apostol, Calculus, Volume 2: Linear Algebra with Multi-Variable Calculus and Applications, Wiley. T.M. Apostol, Mathematical Analysis, Second Edition, Addison-Wesley. V. I. Arnold, Mathematical Methods of Classical Mechanics, Springer-Verlag. A. Browder, Mathematical Analysis: An Introduction, Springer-Verlag. R.C. 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