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Introduction To Tensor Calculus For General Relativity

The Speed Of Light $c=1$. Greek Indices (μ, ν , Etc., Which Take The Range $\{0,1,2,3\}$) Will Be Used To Represent Components Of Tensors. The Einstein Summation Convention Is Assumed: Repeated Upper And Lower Indices Are To Be Summed Over Their Ranges, E.g., $A_{\mu}B^{\mu} \equiv A_0B_0 + A_1B_1 + A_2B_2 + A_3B_3$. Four-vectors Will Be Represented With Jan 1th, 2024

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PART 1: INTRODUCTION TO TENSOR CALCULUS A Scalar Eld Describes A One-to-one Correspondence Between A Single Scalar Number And A Point. An N-dimensional Vector Eld Is Described By A One-to-one Correspondence Between N-numbers And A Point. Let Us Generalize These Concepts By Assigning N-squared Numbers To A Single Point Or N-cubed Numbers To A Single May 1th, 2024

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INTRODUCTION TO THE ESSENTIALS OF TENSOR CALCULUS

Summation Convention Of Tensor Calculus: Each Repeated Index In An Expression, Here j , Is To Be Summed From 1 To N . The Relation Above Gives A Prescription For Transforming The (contravariant) Vector dx^i To Another System. This Establishes The Rule For Transforming Any Contravariant Vector From One System To Another. $A_i(q) = (\partial q^j / \partial x^i) A_j(x)$ Jan 3th, 2024

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A Simple And Efficient Tensor Calculus

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