

Tensor Analysis (Lecture- 1)

Introduction to Tensors

Complete Note Based Discussion

❖ Again x^i 's are function of \bar{x}^a , *What is Tensors ?*

$$\text{So, } \frac{dx^i}{dx^j} = \frac{\partial x^i}{\partial \bar{x}^a} \frac{\partial \bar{x}^a}{\partial x^j}$$

What do you mean by Transformation of

or, $\delta_j^i = \frac{\partial x^i}{\partial \bar{x}^a} \frac{\partial \bar{x}^a}{\partial x^j} \Rightarrow$ Unbarred co-ordinate system *Co-ordinates ?*

Similarly in Barred Co-ordinate system,

What is Einstein's Summation Convention ?

Representation of Kronecker Delta in Barred &

$$\frac{\partial \bar{x}^a}{\partial x^i} \frac{\partial x^i}{\partial \bar{x}^a}$$

Unbarred Co-ordinate System.



Tensor Analysis

O García



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