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Appendix A Fundamentals of Vector Analysis

Appendix A Fundamentals of Vector Analysis Abstract The purpose of this appendix is to present a consistent but brief introduction to vector calculus For the sake of completeness, we shall begin with a brief review of vector algebra

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types of triple products which have meaning in vector analysis 1 The dot product can be formed for any pair and the resulting scalar multiplied into

the third vector: $a \times (b \times c)$, a vector in the direction of a , The cross product can be formed for any pair and the resulting vector ...

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CHAPTER 3 VECTOR ANALYSIS 313 Position and Distance Vectors $z_2 \ y_2 \ z_1 \ y_1 \ x_1 \ x_2 \ x \ y \ R_1 \ 2 \ R_{12} \ z \ P_1 = (x_1, y_1, z_1) \ P_2 = (x_2, y_2, z_2) \ O$ Figure 3-4 Distance vector $R_{12} = P_1 P_2 = R_2 - R_1$, where R_1 and R_2 are the position vectors of points P_1 and P_2 , respectively Figure 33: ...

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1.1 Elementary Approach

2 Chapter 1 Vector Analysis B C A Figure 11 Triangle Law of Vector Addition B A C F E D Figure 12 Vector Addition Is Associative this representation, vector addition $C = A + B$ (11) consists of placing the rear end of vector B at the point of vector A (head to tail rule)

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Tensor Analysis and Differential Geometry

7 Notice(s): 212 On the one hand hold $\mathbf{e}_i = A_i^0 \mathbf{e}_i$ and $\mathbf{e}_i = A_i^j \mathbf{e}_j$ and on the other hand $\mathbf{e}_i = \delta_{ij} \mathbf{e}_j$, from what follows that $A_i^0 = \delta_{ij}$ and $A_i^j = \delta_{ij}$. On the same manner it is deduced that $A_i^j = \delta_{ij}$. The δ_{ij} and δ_{ij} are the Kronecker delta's. Construct with them the