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Chapter 1 Linear Algebra 1.1 Matrices 1.1.1 Matrix algebra An mby nmatrix Ais an array of complex numbers Aij for 1 i mand 1 j n. The vector space operations are the sum A+ B Band the scalar multiple cA. Let A and Bhave the same dimensions.The operations are de ned by (A+ B)ij= Aij+ Bij (1.1)and (cA)ij= cAij: (1.2)The mby nzero matrix is de ned by Oij= 0: (1.3) A matrix is a linear combination of ...

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