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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+ Band the scalar multiple cA. Let Aand 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 0ij= 0: (1.3) A matrix is a linear combination of ...

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Chapter Lecture Notes - BCIT School of Business

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LECTURE NOTES ON MATHEMATICAL INDUCTION Contents

This book is based on the lecture notes of the mathematical Olympiad training courses conducted by the author in Singapore. Its scope and depth not only covers and beyond the usual syllabus, but introduces a variety of concepts and methods in modern mathematics as well. In each lecture, the concepts, theories and methods are taken as the core.

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