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Chapter 1 Linear Algebra 1.1 Matrices
1.1.1 Matrix algebra An m by n matrix A is an array of complex numbers A_{ij} for $1 \leq i \leq m$ and $1 \leq j \leq n$. The vector space operations are the sum $A+B$ and the scalar multiple cA . Let A and B have the same dimensions. The operations are defined by $(A+B)_{ij} = A_{ij} + B_{ij}$ (1.1) and $(cA)_{ij} = cA_{ij}$: (1.2) The m by n zero matrix

is defined by $O_{ij} = 0$: (1.3) A matrix is a linear combination of ...

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LECTURE 1. INTRODUCTION 3 it need not be diagonal in an anisotropic system. For example, the heat flux in a crystal lattice or in a composite medium made up of alternating thin layers of [Applied Mathematics | Harvard John A. Paulson School of ...](#)
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Maths & Appl Maths II Differential Equations Nov 2011 Question 7. [19 marks] Consider the following system of differential equations: $x' = 3x - 2y$, $y' = x + y$: (a) Show that the eigenvalues

of the above system are equal to 2 i.

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Applied Mathematics, Computer Science and Mathematics form the three divisions of the Department of Mathematical Sciences in the Faculty of Science at Stellenbosch University. Applied Mathematics also has strong links with the Faculty of Engineering.

Applied Math Lecture 01 Part 1

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