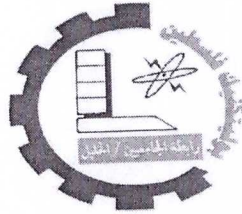


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Hermitian Matrices

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Abstract

In this seminar we talked about an introduction to a special type of matrices which is the Hermitian matrices. This seminar consists of three chapters.

The first chapter , gives some fundamental definitions , theorems and properties from elementary linear algebra related the topics of the seminar .

The second chapter , talked about Hermitian and Skew-Hermitian matrices ,and studies the algebraic properties of each of them.

The third chapter , introduces the eigenvalues and eigenvectors for the Hermitian matrices and how to diagonalize Hermitian matrix through the unitary matrix.