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Kharema Ebshesh: Operator theory in finite-dimensional vector spaces

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Sammanfattning

The theory of linear operators is an extensive area. This thesis is about the linear operators in finite dimensional vector spaces. We study the symmetric, unitary, isometric, and normal operators, and orthogonal projections in the unitary space, the eigenvalue problem and the resolvent. We give a proof of the minimax principle in the end.