

linear operator theory in pdf

In mathematics, an operator is generally a mapping that acts on elements of a space to produce other elements of the same space. The most common operators are linear maps, which act on vector spaces. However, when using "linear operator" instead of "linear map", mathematicians often mean actions on vector spaces of functions, which also preserve other properties, such as continuity.

Operator (mathematics) - Wikipedia

Linear maps are mappings between vector spaces that preserve the vector-space structure. Given two vector spaces V and W over a field F , a linear map (also called, in some contexts, linear transformation, linear mapping or linear operator) is a map: T that is compatible with addition and scalar multiplication, that is $(u+v)T = uT + vT$, $(a \cdot v)T = a \cdot (vT)$ for any vectors u, v in V and scalar a in F .

Linear algebra - Wikipedia

Integral Equations and Operator Theory (IEOT) is devoted to the publication of current research in integral equations, operator theory and related topics with emphasis on the linear aspects of the theory. The journal reports on the full scope of current developments from abstract theory to numerical methods and applications to analysis, physics, mechanics, engineering and others.

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