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A self-adjoint linear operator equal to its square is called a projector (projection operator); such a linear operator can be realized as the operator of orthogonal projection onto a closed subspace of V . A linear operator is called a unitary operator (in the case of the field \mathbb{C} , an orthogonal operator) if $T^* = T^{-1}$, or, equivalently, if $\langle T\alpha, T\beta \rangle = \langle \alpha, \beta \rangle$, and $\langle T\alpha, \alpha \rangle \geq 0$. A linear operator is unitary if and only if it is an isomorphism that preserves norms.

Linear operator - Encyclopedia of Mathematics

In mathematics, a linear map (also called a linear mapping, linear transformation or, in some contexts, linear function) is a mapping $V \rightarrow W$ between two modules (for example, two vector spaces) that preserves (in the sense defined below) the operations of addition and scalar multiplication. If a linear map is a bijection then it is called a linear isomorphism.

Linear map - Wikipedia

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Linear operator methods in chemical engineering with ...

$\hat{A}f(x) = g(x)$ The most common kind of operator encountered are linear operators which satisfies the following two conditions: $\hat{0}(f(x) + g(x)) = \hat{0}f(x) + \hat{0}g(x)$ Condition A. and. $\hat{0}cf(x) = c\hat{0}f(x)$ Condition B. where. $\hat{0}$ is a linear operator, c is a constant that can be a complex number ($c = a + ib$), and.

3.2: Linear Operators in Quantum Mechanics - Chemistry ...

Newton-Raphson Method • When the iterate is sufficiently close to the root, convergence is guaranteed (local convergence)! • Extending this idea to systems nonlinear equations is easy: • Approximate the function as linear: $f(x_{i+1}) \approx 0 = f(x_i) + J(x_i)(x_{i+1} - x_i)$ $f(x_{i+1}) \approx 0 = f(x_i) + J(x_i)d_i$ • Solve for the displacement: $J(x_i)d_i = -f(x_i)$ $d_i = -[J(x_i)]^{-1} f(x_i)$ •

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10.34: Numerical Methods Applied to Chemical Engineering
 $L(q, \dot{q}, t)$ or equivalently the Hamiltonian. $H(q, p, t)$, a function of the generalized coordinates q , generalized velocities. $\dot{q} = dq / dt$ and its conjugate momenta: $p = \partial L / \partial \dot{q}$.

Operator (physics) - Wikipedia

The operator L is linear: $L\left(C_1 y_1 + C_2 y_2 \right) = C_1 L(y_1) + C_2 L(y_2)$.

Differential Operators - Math24

The most commonly used root-finding method is perhaps the Newton-Raphson method, commonly called the Newton method. This method is based on linearizing the given nonlinear function. This is based on the idea that if we zoom in a very small interval, the function appears to be a straight line.

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Transformations 22, Matrices Geometry and Algebra Linear Chemical Transformations Matrix Terminology Geometry and Algebra Operating on point x in R^3 , matrix A transforms it to y in R^2 . Point y is the image of point x under the mapping defined by matrix A .

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