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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  $F$ , an orthogonal operator) if  $T^{-1} = T^*$ , or, equivalently, if  $\langle T\alpha, T\beta \rangle = \langle \alpha, \beta \rangle$ , and  $\langle T\alpha, \alpha \rangle = \langle \alpha, \alpha \rangle$ . 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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$\hat{O}(f(x) + g(x)) = \hat{O}f(x) + \hat{O}g(x)$  Condition A. and  $\hat{O}(cf(x)) = c\hat{O}f(x)$  Condition B. where  $\hat{O}$  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:  $f(x_{i+1}) \approx f(x_i) + J(x_i)(x_{i+1} - x_i)$  • 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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$L(q, \dot{q}, t)$  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  $L(D)$  is linear:  $L(D)[C_1 y_1 + C_2 y_2] = C_1 L(D)y_1 + C_2 L(D)y_2$ .

## *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.

## *Scientific Computing with matlab in Chemical Engineering ...*

Mathematical Methods in Engineering and Science Matrices and Linear Transformations 22, Matrices Geometry and Algebra Linear 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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