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Fixed point theorems are used for proving the existence and uniqueness to differential, integral and partial differential equations and variational inequalities etc. Above all, they are also useful in the field of computer science, image processing, artificial intelligence, decision making, population dynamics, operational research, industrial engineering, pattern recognition, medicine, group ...

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Fixed Point. A fixed point is a point that does not change upon application of a map, system of differential equations, etc. In particular, a fixed point of a function is a point such that (1)The fixed point of a function starting from an initial value can be computed in the Wolfram Language using FixedPoint [f, x].

Fixed points: Topics & Problems

fixed point is one of general paradigms of algorithms. It is the fixed point approach on which we shall focus our interest in the present paper. In all fixed point calculi, the main feature of the syntax consists in

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an explicit notation for solutions of the fixed point equations $x = Z(X)$.

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2.2 Fixed-Point Iteration

Stability of fixed points. The simplest kind of an orbit is a fixed point, or an equilibrium. If a mechanical system is in a stable equilibrium state then a small push will result in a localized motion, for example, small oscillations as in the case of a pendulum.

Stability theory - Wikipedia

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Definition 1 (Stability of Fixed Points) Let $X : D \rightarrow \mathbb{R}^n$ be a vector field with $\omega \sim \emptyset$, and let $x \in D$. Let $I_x = (a_x; b_x)$ denote the maximum interval of existence for the integral curve of $x' = X(x)$ passing through x at $t = 0$. A fixed point c of X is stable if $\lim_{t \rightarrow 0} \|x(t) - c\| = 0$ for each fixed $t \in [0; b_x)$. Because the ω is defined for all $t > b$

Stability of Fixed Points - USM

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A fixed point is a point that does not change upon application of a map, system of differential equations, etc. In particular, a fixed point of a function is a point such that. (1) The fixed point of a function starting from an initial value can be computed in the Wolfram Language using `FixedPoint [f, x]`.

Fixed Point : Definition & Problems With Answers

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FIXED POINT ITERATION METHOD. Fixed point: A point, say, s is called a fixed point if it satisfies the equation $x = g(x)$. Fixed point Iteration: The transcendental equation $f(x) = 0$ can be converted algebraically into the form $x = g(x)$ and then using the iterative scheme with the recursive ...

A Study On Fixed Point Theory With Applications

Bhaskar and Lakshmikantham [3] proposed the study of a coupled fixed point in ordered metric spaces and as an application they proved the existence and uniqueness of solutions for a periodic boundary value problem. Nguyen et al. [14], Berinde and Borcut [15] and Karpinar [8] introduced tripled and quadruple fixed point theorems as a generalization and extension of coupled fixed point theorem. For comprehensive description of the

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