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a note on the homotopy analysis method sciencedirect Oct 21 2022 web oct 1 2010 the homotopy analysis method introduced first by liao 1 is a general approximate analytic approach used to obtain series solutions of nonlinear equations of various types including algebraic equations ordinary differential equations partial differential equations differential integral equations differential difference equations

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[homotopy analysis method wikipedia](#) Apr 27 2023 web the homotopy analysis method ham is a semi analytical technique to solve nonlinear ordinary partial differential equations the homotopy analysis method employs the concept of the homotopy from topology to generate a convergent series

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homotopy mathematics britannica Aug 07 2021 web homotopy in mathematics a way of classifying geometric regions by studying the different types of paths that can be drawn in the region two paths with common endpoints are called homotopic if one can be continuously deformed into the other leaving the end points fixed and remaining within its defined region in part a of the figure the shaded region has a

applying discrete homotopy analysis method for solving Oct 09 2021 web in 1992 liao

introduced the homotopy analysis method a semi analytical method for solving strongly nonlinear differential equations the main advantage of ham is that it provides great freedom to choose equation type and solution expression of related linear high order approximation equations

an integrated genetic algorithm and homotopy analysis method hindawi Dec 11 2021 web jun 15 2021 the homotopy analysis method ham 12 16 is a known semianalytic approach to approximating series solutions of nonlinear equations the ham characteristics including the initial approximation auxiliary linear operator and function provide a powerful tool for nonlinear equation systems

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