

## Dynamics Of Third Order Rational Difference Equations With Open Problems And Conjectures Advances In Discrete Mathematics And Applications

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Dynamics of Third Order Rational Difference Equations with Open Problems and Conjectures focuses on the boundedness nature of solutions, the global stability of equilibrium points, the periodic character of solutions, and the convergence to periodic solutions, including their periodic trichotomies. The book also provides numerous thought-provoking open problems and conjectures on the boundedness character, global stability, and periodic behavior of solutions of rational difference equations.

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The asymptotic dynamics of the classes of rational difference equations (RDEs) of third order defined over the positive real-line as.  $x_{n+1} = x_n a + b x_n - 1 + c x_n - 2$ ,  $x_{n+1} = x_n - 1 a x_n + b x_n - 1 + c x_n - 2$ ,  $x_{n+1} = x_n - 2 a x_n + b x_n - 1 + c x_n - 2$ , and.

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The asymptotic dynamics of positive solution for a system of a rational third-order difference equation  $x_{n+1} = x_n - 2B + y_n - 2y_n - 1y_n$ ,  $y_{n+1} = y_n - 2A + x_n - 2x_n - 1x_n$ ,  $n = 0, 1, \dots$ . Open image in new window

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Shojaei M, Saadati R, Adibi H: Stability and periodic character of a rational third order difference equation. Chaos Solitons Fractals 2009, 39: 1203-1209. 10.1016/j.chaos.2007.06.029. MathSciNet Article Google Scholar

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V. L. Kocic and G. Ladas, Global Behavior of Nonlinear Difference Equations of Higher Order with Application, Kluwer Academic Publishers, Dordrecht, The Netherlands, 1993. M. R. C. Kulenovic and G. Ladas, Dynamics of Second Order Rational Difference Equations with Open Problems and Conjectures, Chapman & Hall, CRC Press, Boca Raton, Fla, USA ...

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Discrete Dynamics in Nature and Society / 2018 / Article. Article Sections. On this page. ... On the Solutions of a System of Third-Order Rational Difference Equations. A. M. Alotaibi, I M. S. M. Noorani, 1 and M. A. El-Moneam 2. 1 School of Mathematical Sciences, Universiti Kebangsaan Malaysia, Bangi, ...

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**On the Solutions of a System of Third-Order Rational ...**  
First-order rational difference equation. A first-order rational real numbers, this difference equation is called a Riccati difference equation... Such an equation can be solved by writing as a nonlinear transformation of another variable which itself evolves linearly.