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http--v 🏠 ▼ 🔝 ▼ 🖂 🚔 ▼ Page ▼ Safety ▼ Tools ▼ 🚳 ☐ Discrete fractional order system vibrations Original Research Article In Press, Corrected Proof, Available online 25 November 2014 K.R. (Stevanović) Hedrih, J.A. Tenreiro Machado ▶ Abstract | ▼ Close research highlights | 💆 PDF (1252 K) A theory of free vibrations of discrete fractional order (FO) systems with a finite number of degrees of freedom (dof) is Eigen characteristic numbers, the FO system of eigen main coordinates and independent eigen FO modes are A generalized function of FO dissipation of energy and generalized forces for generalized coordinates are introduced. Extended Lagrange FODE of second kind, for FO system dynamics, is also introduced. A FO electrical resistor is introduced and its constitutive relation is formulated. ☐ Elements of mathematical phenomenology of self-organization nonlinear

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Elements of mathematical phenomenology of self-organization dynamical systems are presented.

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Article

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