

Li, Wan-Tong; Sun, Hong-Rui

Global attractivity in a rational recursive sequence. (English) Zbl 1019.39007
Dyn. Syst. Appl. 11, No. 3, 339-345 (2002).

For the recursive sequence $x_{n+1} = (\alpha - \beta x_n) / (\gamma + x_{n-k})$ with non-negative α, β, γ and natural k it is shown that, under certain assumptions, the non-negative equilibrium is an attractor.

Reviewer: [Lothar Berg \(Rostock\)](#)

MSC:

[39A11](#) Stability of difference equations (MSC2000)
[39B05](#) General theory of functional equations and inequalities

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Keywords:

[global attractivity](#); [rational recursive sequence](#); [non-negative equilibrium](#)