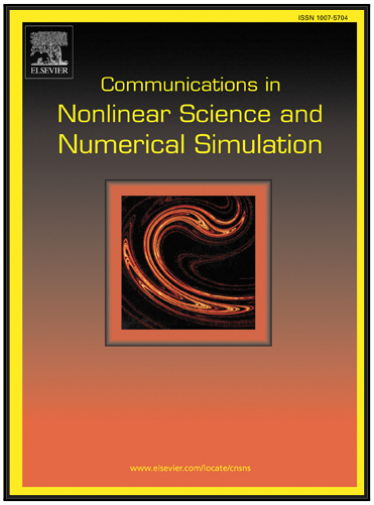
Accepted Manuscript



The Role of Fractional Calculus in Modelling Biological Phenomena: A review

C. Ionescu, A. Lopes, D. Copot, J.A.T. Machado, J.H.T. Bates

PII: S1007-5704(17)30111-9
DOI: 10.1016/j.cnsns.2017.04.001
Reference: CNSNS 4151

To appear in: *Communications in Nonlinear Science and Numerical Simulation*

Received date: 30 September 2016
Revised date: 3 April 2017
Accepted date: 4 April 2017

Please cite this article as: C. Ionescu, A. Lopes, D. Copot, J.A.T. Machado, J.H.T. Bates, The Role of Fractional Calculus in Modelling Biological Phenomena: A review, *Communications in Nonlinear Science and Numerical Simulation* (2017), doi: 10.1016/j.cnsns.2017.04.001

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- An up to date review with the latest scientific results of fractional calculus in both science and engineering fields
- The use of fractional calculus in modeling: respiratory tissue, bio-impedance and drug diffusion
- Fractional calculus offers parsimonious yet accurate models

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/5011430

Download Persian Version:

https://daneshyari.com/article/5011430

Daneshyari.com