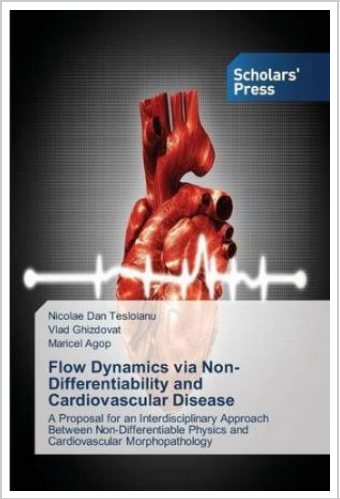




# Flow Dynamics via Non-Differentiability and Cardiovascular Disease

By Tesloianu, Nicolae Dan / Ghizdovat, Vlad

Condition: New. Publisher/Verlag: Scholar's Press | A Proposal for an Interdisciplinary Approach Between Non-Differentiable Physics and Cardiovascular Morphopathology | Flow dynamics regimen via non-differentiability in complex fluids and its implication in cardiovascular pathology represent a beginning for an interdisciplinary approach, that would satisfy both physicists and physicians, towards a better understanding of arteriosclerosis. Since the non-differentiability appears as a universal property of the complex systems, non-differentiable physics should be applied in the theoretical modelling of the interactions that take place between the components of the cardiovascular system. Considering that the entities of the complex system are moving on continuous but non-differentiable curves, we show that the "control" of different behaviours of these systems implies fractal physics. The use of this physics allows us to redefine the terms of "good" and "bad" cholesterol, to propose both a fractal theory for explanation of unstable atheroma plaque and a holographic model for endothelial healing, to define a possible "zero moment" of arteriosclerosis initiation as well as a mechanism for acute occlusion of a healthy artery and to suggest an explanation for complex phenomena generating cardiac arrhythmias, mainly by analysing the routes to chaos. | Format: Paperback | Language/Sprache: english | 96 pp.



### Reviews

*Very useful to all category of individuals. It is one of the most amazing publication i have got read through. You will not feel monotony at anytime of your respective time (that's what catalogs are for about when you question me).*

-- ***Mr. Johnathon Dach***

*This publication may be really worth a go through, and a lot better than other. It really is full of knowledge and wisdom Its been printed in an exceptionally easy way in fact it is simply after i finished reading this publication by which basically modified me, affect the way i really believe.*

-- ***Troy Dietrich DDS***