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Nonlinear food production problems by fixed point theory

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Most of the natural and physical phenomena in the universe are not straight forward, since there is nonlinear nature of phenomenon in the area of sciences that are not continuous and involve jumps or discontinuity, such as effect of discontinuity or jumps of environment and heat stress on the agricultural food production, body growth, milk production, semen production, female reproduction of animals and also plant characters. Again, almost all such natural and physical phenomena involve the decay or growth, that is, the change in the state with respect to the time period. Increase in temperature and carbon dioxide can increase some crop yields in some places. The effects of climate change also need to be considered along with other evolving factors that effects agricultural food production. Agriculture is an important sector of the Indian economy. Agriculture and fisheries are highly dependent on the climate. Therefore, some of these types of problems may be formulated as nonlinear differential and integral equations involving discontinuous terms. Nonlinear differential and integral equations of arbitrary order play an important role in branch of nonlinear analysis and their applications in biological sciences. In this paper, we prove the existence solution or such type of nonlinear differential and integral equations and its applications. From the present investigation, it is concluded that the fixed point method which is powerful tool for existence solution of such type nonlinear differential and integral equations in Banach Spaces.

Biography

Karande B D is an Assistant Professor in Mathematics at Maharashtra Udayagiri College, India. He presented his research papers in countries like Malaysia, Thailand and Norway. Till today, he has published 29 research papers in national and international journals. He has also presented many research papers in national and international conferences. He is the Life Member of Indian Science Congress, Indian Mathematical Society and Marathwada Mathematical Society.

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