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Research Details :

Research Title : *A quasilinearization method for a class of integro-differential equations with mixed nonlinearities*
A quasilinearization method for a class of integro-differential equations with mixed nonlinearities

Descriptipn : We develop an extended form of the quasilinearization method for an initial value problem involving a nonlinear integro-differential equation with mixed nonlinearities, occurring in distributed-infective and distributed-contact models. In fact, a monotone sequence of iterates converging uniformly and quadratically to a solution of the problem is obtained. Some interesting observations are presented. (c) 2005 Elsevier Ltd. All rights reserved.

Research Type : Article

Research Year : 2006

Publisher : NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS Volume: 7
Issue: 5 Pages: 997-1004

Added Date : Tuesday, June 17, 2008

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