Ahmad, B., Alsaedi, A.  
Existence of approximate solutions of the forced Duffing equation with discontinuous type integral boundary conditions  

Department of Mathematics, Faculty of Science, King Abdulaziz University, P.O. Box. 80203, Jeddah, 21589, Saudi Arabia

Abstract  
We develop a generalized quasilinearization technique to obtain a sequence of approximate solutions converging monotonically and quadratically to the unique solution of the forced Duffing equation with discontinuous type integral boundary conditions. © 2007 Elsevier Ltd. All rights reserved.

Author Keywords  
Duffing equation; Integral boundary conditions; Quadratic convergence; Quasilinearization

ISSN: 14681218