

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141035934 A

(19) INDIA

(22) Date of filing of Application :09/08/2021

(43) Publication Date : 13/08/2021

(54) Title of the invention : Structural and Fluid Dynamics Boundary Value Limitations Approximated Solution in Engineering Applications

(51) International classification	:G06F0030230000, G06F0111040000, G06F0009455000, G06F0017130000, G01M0010000000	(71)Name of Applicant : 1)Dr. K. Ramesh Babu, Assistant Professor/ Department of H&S, MVSR Engineering college Address of Applicant :MVSR Engineering college, Nadergul, Hyderabad, Telangana-501510. Telangana India 2)Dr.P. Suresh, Assistant Professor/ Department of Mathematics, Chaitanya Bharathi Institute of Technology (A). 3)M. Chalapathi Rao, Assistant Professor/ Department of H&S, Sri Indu College of Engineering & Technology (Autonomous). 4)S. Praveen Kumar, Assistant Professor/ Department of H&S, Sri Indu College of Engineering & Technology (Autonomous). 5)Ponneyboina Manjula, Assistant Professor/ Department of H&S, Sri Indu College of Engineering & Technology (Autonomous). 6)Dr.A.Mythreya, Associate Professor/ Department of H&S, Stanley College of Engineering and Technology for Women. 7)Dr. P. Srilatha, Associate Professor /Department of Mathematics, Institute of Aeronautical Engineering. 8)Dr. G. Rami Reddy, Professor/ Department of Mathematics, Malla Reddy Engineering College (A).
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract As a boundary value problem solver, the variational iteration method (VIM) is advantageous in structural engineering and fluid dynamics analysis problems. Models of these complications are used to study viscoelastic and inelastic flows, beam distortion, and plate bending. The exact answers and the outcomes of the variational iteration method are compared (VIM). According to the outcomes, this strategy is highly successful, straightforward, and provides exact solutions. Using this strategy for addressing linear and nonlinear boundary limitation problems were demonstrated.

No. of Pages : 16 No. of Claims : 3