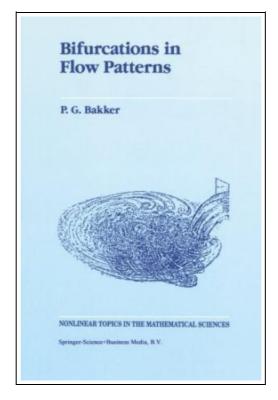
Bifurcations in Flow Patterns



Filesize: 5.17 MB

Reviews

This ebook will be worth buying. It usually fails to price an excessive amount of. You wont feel monotony at whenever you want of your respective time (that's what catalogs are for regarding in the event you check with me). (Ernest Vandervort)

BIFURCATIONS IN FLOW PATTERNS



Book Condition: New. Publisher/Verlag: Springer, Berlin | Some Applications of the Qualitative Theory of Differential Equations in Fluid Dynamics | The main idea of the present study is to demonstrate that the qualitative theory of differential equations, when applied to problems in fluid-and gasdynamics, will contribute to the understanding of qualitative aspects of fluid flows, in particular those concerned with geometrical properties of flow fields such as shape and stability of its streamline patterns. It is obvious that insight into the qualitative structure of flow fields is of great importance and appears as an ultimate aim of flow research. Qualitative insight fashions our know ledge and serves as a good guide for further quantitative investigations. Moreover, qualitative information can become very useful, especially when it is applied in close corres pondence with numerical methods, in order to interpret and value numerical results. A qualitative analysis may be crucial for the investigation of the flow in the neighbourhood of singularities where a numerical method is not reliable anymore due to discretisation er rors being unacceptable. Up till now, familiar research methods -frequently based on rigorous analyses, careful nu merical procedures and sophisticated experimental techniques -have increased considera bly our qualitative knowledge of flows, albeit that the information is often obtained indirectly by a process of a careful but cumbersome examination of quantitative data. In the past decade, new methods are under development that yield the qualitative infor mation more directly. These methods, make use of the knowledge available in the qualitative theory of different tial equations and in the theory of bifurcations. | I Some Elements Of The Qualitative Theory Of Differential Equations. - 1. Phase space representation of a dynamical system. - 2. Phase portraits near singular points. - 3. Topological structure of phase portraits, structural stability, bifurcation. - 3.1. Topological structure...



Read Bifurcations in Flow Patterns Online

Download PDF Bifurcations in Flow Patterns

Other PDFs



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: 2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Download ePub »



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: 2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Download ePub »



Fifty Years Hence, or What May Be in 1943

Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****. Fifty Years Hence is a quasi-fictional work by Robert Grimshaw, a professional...

Download ePub



Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner's Crochet Guide with Pictures)

 $Create space, United States, 2015. \ Paperback. \ Book \ Condition: New. \ 229 \times 152 \ mm. \ Language: English. \ Brand \ New \ Book \ ***** \ Print on Demand \ *****. \ Getting \ Your \ FREE Bonus \ Download \ this \ book, \ read \ it to \ the \ end \ and...$

Download ePub »



Dog on It! - Everything You Need to Know about Life Is Right There at Your Feet

14 Hands Press, United States, 2013. Paperback. Book Condition: New. 198 x 132 mm. Language: English . Brand New Book ***** Print on Demand *****. Have you ever told a little white lie? Or maybe a...

Download ePub »