

# Generating Families in the Restricted Three-Body Problem: II. Quantitative Study of Bifurcations: 2 (Lecture Notes in Physics Monographs)

Michel Henon



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hereafter calledvolume the of In a volume study previous (H6non 1997, I), the restricted initiated. families in problem (We generating three body was recall that families defined as the limits of families of are periodic generating determination of orbits for Themain wasfound to lie in the 4 problem p 0.) bifurcation where two the between the branches at a ormore orbit, junctions A solution to this was families of orbits intersect. partial problem generating and sides of the use of invariants: Manysimple symmetries passage. given by In the evolution of the bifurcations can be solved in this way. particular, orbits be described almost nine natural families of can completely. periodic become i.e. when the number of as the bifurcations more complex, However, fails. the bifurcation orbit themethod families increases, passing through of This volume describes another to the a approach problem, consisting in of bifurcation of the families the a analysis vicinity detailed, quantitative used in Vol. I. orbit. This more work than the requires qualitative approach in at to deter it has the of least, However, advantage allowing us, principle branches Infact it more than that: minein all cases how the are joined. gives almost all the first order we will see in asymptotic approxima that, cases, the families in the of the bifurcation can be derived.

tion of neighbourhood found in with This a comparison numerically allows, particular, quantitative families. and The 11 dealswiththerelevant definitions Chapter generalequations. of described in 12 16. The ofbifurcations 1 is Chaps. study type quantitative it is described in 17 23. 3 of 2 ismore Chaps. Type analysis type involved; its hadnot been at thetime of isevenmore completed complex; analysis yet writing.

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