



# Number Theory And Dynamical Systems

**Author :** M M Dodson J A G Vickers / **Category :** Mathematics /  
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**Summary :** Free number theory and dynamical systems pdf download - this volume contains selected contributions from a very successful meeting on number theory and dynamical systems held at the university of york in 1987 there are close and surprising connections between number theory and dynamical systems one emerged last century from the study of the stability of the solar system where problems of small divisors associated with the near resonance of planetary frequencies arose previously the question of the stability of the solar system was answered in more general terms by the celebrated kam theorem in which the relationship between near resonance and so diophantine approximation and stability is of central importance other examples of the connections involve the work of szemerédi and furstenberg and sprindzuk as well as containing results on the relationship between number theory and dynamical systems the book also includes some more speculative and exploratory work which should stimulate interest in different approaches to old problems

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