



## The Dynamical System Generated by the $3n+1$ Function

By Günther J. Wirsching

Springer Berlin Heidelberg Feb 1998, 1998. Taschenbuch. Condition: Neu. Neuware - The  $3n+1$  function  $T$  is defined by  $T(n)=n/2$  for  $n$  even, and  $T(n)=(3n+1)/2$  for  $n$  odd. The famous  $3n+1$  conjecture, which remains open, states that, for any starting number  $n \neq 0$ , iterated application of  $T$  to  $n$  eventually produces 1. After a survey of theorems concerning the  $3n+1$  problem, the main focus of the book are  $3n+1$  predecessor sets. These are analyzed using, e.g., elementary number theory, combinatorics, asymptotic analysis, and abstract measure theory. The book is written for any mathematician interested in the  $3n+1$  problem, and in the wealth of mathematical ideas employed to attack it. 172 pp. English.



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