



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_0 , iterated application of T to n_0 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. Englisch.



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