

# Stability by Fixed Point Theory for Functional Differential Equations (Dover Books on Mathematics)

T. A. Burton



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### Stability by Fixed Point Theory for Functional Differential **Equations (Dover Books on Mathematics)**

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This book is the first general introduction to stability of ordinary and functional differential equations by means of fixed point techniques. It contains an extensive collection of new and classical examples worked in detail and presented in an elementary manner.

Most of this text relies on three principles: a complete metric space, the contraction mapping principle, and an elementary variation of parameters formula. The material is highly accessible to upper-level undergraduate students in the mathematical sciences, as well as working biologists, chemists, economists, engineers, mathematicians, physicists, and other scientists using differential equations. It also introduces many research problems that promise to remain of ongoing interest.



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