



# Difference Equations, Second Edition: An Introduction with Applications

By Walter G. Kelley, Allan C. Peterson

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*Difference Equations, Second Edition*, presents a practical introduction to this important field of solutions for engineering and the physical sciences. Topic coverage includes numerical analysis, numerical methods, differential equations, combinatorics and discrete modeling. A hallmark of this revision is the diverse application to many subfields of mathematics.

- \* Phase plane analysis for systems of two linear equations
- \* Use of equations of variation to approximate solutions
- \* Fundamental matrices and Floquet theory for periodic systems
- \* LaSalle invariance theorem
- \* Additional applications: secant line method, Bison problem, juvenile-adult population model, probability theory
- \* Appendix on the use of *Mathematica* for analyzing difference equations
- \* Exponential generating functions
- \* Many new examples and exercises

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"The authors have their finger on the current trends in difference equations. This is a well-written textbook by authors who are known as teachers and expositors."

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