



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 first edition of this book has been the best introduction to difference equations available; the second edition improves this even further."

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From the Back Cover

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