

An Introduction to Difference Equations

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We will give an introduction to difference equations. Several interesting examples leading to difference equations will be given. Then we will quickly do the difference calculus and give further interesting examples using difference equations. Much of the material in Chapters 1 and 2 in Kelley and Peterson [3] will be presented.

References and Literature for Further Reading

- [1] Martin Bohner and Allan Peterson, *Dynamic Equations on Time Scales: An Introduction with Applications*, *Birkhäuser*, Boston, 2001.
- [2] Martin Bohner and Allan Peterson, Editors, *Advances in Dynamic Equations on Time Scales*, *Birkhäuser*, Boston, 2003.
- [3] Walter Kelley and Allan Peterson, *Difference Equations: An Introduction with Applications*, *Harcourt/Academic Press*, San Diego, 2001.