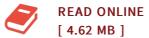# Dynamic Equations on Time Scales

By Martin Bohner

Birkhäuser Jul 2001, 2001. Buch. Book Condition: Neu. 254x178x25 mm. This item is printed on demand - Print on Demand Titel. - The study of dynamic equations on a measure chain (time scale) goes back to its founder S. Hilger (1988), and is a new area of still fairly theoretical exploration in mathematics. Motivating the subject is the notion that dynamic equations on measure chains can build bridges between continuous and discrete mathematics. Further, the study of measure chain theory has led to several important applications, e.g., in the study of insect population models, neural networks, heat transfer, and epidemic models. Key features of the book: Introduction to measure chain theory; discussion of its usefulness in allowing for the simultaneous development of differential equations and difference equations without having to repeat analogous proofs Many classical formulas or procedures for differential and difference equations cast in a new light New analogues of many of the 'special functions' studied Examination of the properties of the 'exponential function' on time scales, which can be defined and investigated using a particularly simple linear equation Additional topics covered: self-adjoint equations, linear systems, higher order equations, dynamic inequalities, and symplectic dynamic systems Clear, motivated exposition, beginning...

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