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Review text:

Paper outlines a fixed-point approach to Volterra integral equations considered in discretized form. Attention is being paid to the existence, uniqueness and attractivity properties of their periodic solutions. Several types of equations are investigated. In convolutive case the Fredholm-like alternative is formulated and proved. Assumptions of certain ten years old Elaydi's results are weakened and under certain conditions, the correspondence between the boundedness of initial functions and an asymptotic periodicity of solutions is established. The feasibility of transition to non-linear case (involving "ordinary" implicit difference equations as an interesting special case) is finally emphasized.