CONTENTS

CONTENTS

Introduction.	1
Chapter One: On Oscillation of Integro Differential Equations.	5
§1.1. Introduction.	6
§1.2. Preliminaries.	8
§1.3. Oscillation Criteria for Volttera-Stiltjes Equation (V-S).	10
Chapter Two: On Stability of Nonlinear Systems	23
§2.1. Introduction.	24
§2.2. Preliminaries.	25
$\S 2.3.$ On the ϕ_0 -Stability.	39
$\S 2.4. \ \phi_0$ - L_p -Stability.	42
Chapter Three: On Stability of Nonlinear Systems of Differential Equations Via Cone-Valued Liapunov Function Method	47
§3.1. Introduction.	48
§3.2. ϕ_0 -Relative Stability.	48

$\S 3.3.$ $\phi_0 ext{-}\mathbf{Partial Stability.}$	57
Chapter Four: ϕ_0 -Stability of Impulsive Systems of Differential Equations.	65
§4.1. Introduction.	66
§4.2. Preliminaries.	66
§4.3. Main Results.	70
Chapter Five! On (h_0, h) Stability	82
§5.1. Introduction.	83
§5.2. (h_0, h) -Integral Stability and (h_0, h) -Total Stability.	84
§5.3. (h_0, h) -Eventual Stability.	95
References	99