



Table of Contents

<i>Preface</i>	مكتبة كلية علوم الطبيعة والحياة	ix
Chapter 1	Aquaculture and its Development	1
	Aquaculture	1
	Types of Aquaculture	11
	History of Aquaculture	12
	Objectives and Indicators for Aquaculture Development	18
Chapter 2	Different Systems of Aquaculture	40
	Aquaculture Systems and Species	40
	Salinity Aquaculture	50
	Intensity of Inputs and Stocking Density Based Aquaculture	52
	Farming Based on Number of Species Stocked	56
	Fish Culture Based on Enclosures	57
	Raceway (Aquaculture)	61
	Recirculating Aquaculture System (RAS)	64
	Farm Integration	65
	Livestock Integrated Fish Farming	72
	Soil and Water Quality Management in Aquaculture	75

Chapter 3	Organic Aquaculture and Fish Farm	79
	Organic Aquaculture	79
	Fish Farms	82
	Pond	90
Chapter 4	Pre-stocking Management	118
	Pre-stocking Management	118
	Control Measures in Aquaculture	120
	Eradication of Undesirable Fishes	136
	Liming	147
	Fertilization	152
	Water Filling	181
Chapter 5	Post-stocking Management	184
	Stocking and Post Stocking Management	184
	Sampling Fish	185
	Harvesting	192
Chapter 6	Species for Aquaculture	200
	Aquaculture Species	200
	Freshwater Fishes	207
	Carp Fish	209
	Tilapia	212
	Sport Fisheries	221
	Salmon	222
	Catfish	223
	Crustaceans	226
	Molluscs	232
	Lobster	234
Chapter 7	Aquaculture Nutrition	238
	Feeds for Aquaculture	238
	Fish Feed Storage	245
	Nutrient Requirements of Fish and Shrimp	247
	Principles of Fish Nutrition	251
Chapter 8	Health Management of Fishes	264
	Fish Health Management	264
	Diseases of Fish and Treatment	273
Chapter 9	Aquaculture Biotechnology	287
	Biotechnology in Fisheries and Aquaculture	287
	Applications in Aquaculture and Fisheries	292

Chapter 10 Ecotoxicology	303
Introduction	303
Aquatic Toxicology	310
<i>Bibliography</i>	316
<i>Index</i>	320



جامعة أحمد زبانة غليزان