## CONTENT

	Page
English	::
Foreword	Vii
Chapter 1 Rice and Its Environment	1
Chapter 2 The Geography of Rice (Oryza Sativa L.)	7
Origin and diffusion of cultivated rice	7
Rice in the landscape	8
Major landforms of lowland rice-growing areas	15
Chapter 3 The Hydrology of Rice Lands	27
Types of rice lands in function of water regime	27
Water in pluvial rice lands	32
Water in phreatic rice lands	34
Water in fluxial rice lands	37
Hydrology of bunded and leveled rice fields	37
Flooding regimes	42
Rice land terminology	48
Chapter 4 Classification of Soils on Which rice is Grown	51
Classification systems specifications for rice-growing soils	51
Soil taxonomy applied to rice-growing soils	53
Chapter 5 Soil-Forming Processes in Aquatic Rice Lands	83
Temporary changes in surface soils	83
Permanent changes of the soil profile	88
Soil classification aspects of permanent changes	102
Chapter 6 Soil and Land Properties that Affect the Growth of Rice	107
Texture	107
Soil mineralogy and parent material	111
Organic matter and organic soils	116
Calcareous soils	118
Salinity and alkalinity in rice lands	121
Acid sulfate soils	131
Nutrient deficiencies and mineral toxicities under certain hydrological conditions	136
Chapter 7 Elements for Evaluation of land for rice Growing	143
Land and land qualities	143
Land qualities as related to rice crop performance	144
Land utilization for rice growing	160
References	166
Glossary	173
Index	175