

WATER RESOURCES RESEARCH IN INDIA



PUBLICATION NO. 78
(Revised)

CENTRAL BOARD OF IRRIGATION AND POWER
Indian National Committee for International Commission on Large Dams
Kasturba Gandhi Marg, New Delhi

[Issued on the Occasion of Golden Jubilee Congress of International Commission on Large Dams]

New Delhi

October 1979

CONTENTS

	PAGE
FOREWORD	... (i)
CHAPTER I : Growth of Hydraulics and Irrigation Research in India	... 1
CHAPTER II : Measurement of Flow of Water and Detritus	... 9
CHAPTER III : Behaviour of Rivers	... 38
CHAPTER IV : River Training and Control	... 49
CHAPTER V : Design of Channels	... 76
CHAPTER VI : Losses due to Absorption, Percolation and Evaporation	... 94
CHAPTER VII : Flood and Sediment Control	... 99
CHAPTER VIII : Sand Exclusion from Channels	... 111
CHAPTER IX : Energy Dissipation and Control of Scour below Hydraulic Structures	... 128
CHAPTER X : Hydraulic Structures	... 166
CHAPTER XI : Hydraulic Models, their Uses, Techniques and Limitations with some Examples of Model and Prototype Conformity	... 185
CHAPTER XII : Ground Water and Tubewell Research	... 203
CHAPTER XIII : Land Reclamation in India	... 221
CHAPTER XIV : Field Experiments on Water Requirements of Crops and Optimum Crop Pattern	... 233
CHAPTER XV : Aquatic Weeds and their Control	... 245