

Transmission Main – by G N Virupaksha

Abstract

Water is essential commodity for the survival of life. Providing safe drinking water of adequate quantity for any population is the primary obligation of the authority constituted for this purpose. Water supply system involves transmission of water from source to area of consumption safely. Transmission main account for the appreciable part of capital outlay of water system and hence careful consideration of techno-economics is called for while designing the transmission main.

This learning material “Transmission Main” clearly mentions selection of pipe material, advantage and disadvantages, optimization of size of main, design criteria and need for protection of pipeline against transient pressure and also procedure for laying and maintenance of pipeline.

This learning material is useful for practicing engineers, administrators and any other authority responsible for water supply and irrigation activities.

Rainwater Harvesting – by G N Virupaksha

Abstract

Water is essential for the existence of life on earth. Increase in human population has resulted in exploitation of surface and underground water sources. Water is precious and it should always be conserved.

Rainwater is renewable resource. Rainwater harvesting in various forms such as micro-residential rooftops; medium-infiltration into ground in open yards, parks, check dams and so on; macro-reservoirs across water streams and the like will go a long way in conserving water for tomorrow.

This book “Rainwater Harvesting”, very clearly mentions the need, resource availability, methods of rainwater harvesting and also about inter-basin transfer of water, thereby possibly creating a National Water Grid.

This book is useful for practicing engineers and administrators who are responsible for water and water resource activities. Rainwater Harvesting should be looked upon as a shield to prevent extinction of life from the earth.