



# WATER SUPPLY AND SANITARY ENGINEERING

[ INCLUDING ENVIRONMENTAL ENGINEERING ]

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## ABOUT THE BOOK

The entire subject of *Water Supply and Sanitary Engineering including Environmental Engineering* also known as *Public Health Engineering* is divided in to three parts:

- (1) Water Supply Engineering
- (2) Sanitary Engineering
- (3) Environmental Engineering.

The **first part** deals with the fundamentals of Water Supply Engineering. It discusses the whole science of water supply engineering relating to the quantity and quality of water, sources of water supply, pumps for water supply projects, treatment of water, coagulation of water, filtration of water, disinfection of water, water softening, collection and conveyance of water, distribution system of water, pipe appurtenances, water pollution control, water management, radioactivity and water supplies, etc.

The **second part** of the book deals with the fundamentals of Sanitary Engineering. It discusses the topics such as collection and conveyance of refuse, waste water, quantity and quality of sewage, construction and design of sewers, sewer appurtenances, sewage pumps, house drainage, natural methods of sewage disposal, primary treatment of sewage, filtration of sewage (secondary treatment), activated sludge process, sludge treatment and disposal, miscellaneous methods of sewage treatment, miscellaneous topics of sanitary engineering, etc.

The **third part** deals with the fundamentals of Environmental Engineering. It discusses the topics such as environment, ecology and ecosystem, air pollution, noise pollution, natural resources and population, miscellaneous topics of environmental engineering and environmental legislation.

The **Appendix A** demonstrates the Typical Design of a Sewage Treatment Plant and **Appendix B** describes some of the Terminology of the subject.

The book in its 40 chapters and two appendices includes:

- \* 278 Self explanatory and neat diagrams
- \* 152 Illustrative problems
- \* 68 Useful tables
- \* 690 Questions at the end of chapters.

The book should prove to be extremely useful to the Civil Engineering and also Environmental Engineering students preparing for the Degree Examinations of all the Indian Universities, Diploma Examinations conducted by various Boards of Technical Education, Certificate Courses as well as for the A.M.I.E., U.P.S.C., G.A.T.E., I.E.S. and other similar competitive and professional examinations. It should also prove of interest to the practising professionals.

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