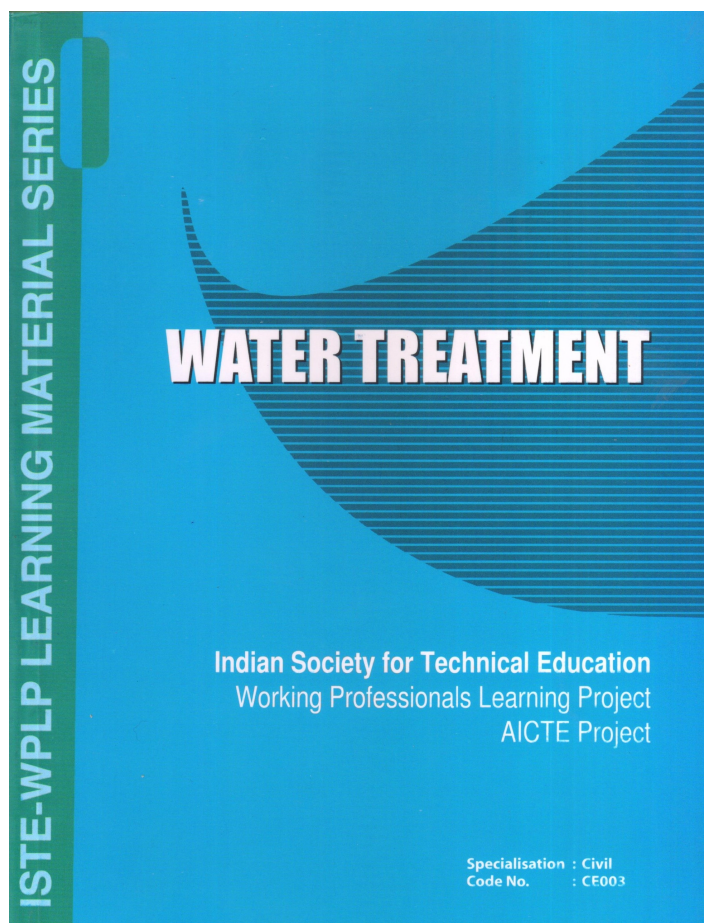




Water Treatment

Author :	P. N. Ravindra
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Water works engineers should be aware of the wider issues concerning the principles of wastewater treatment. This in turn requires not only good design engineering, but also better working knowledge of the system. In this context, this book will make a significant contribution for enhancing knowledge from basics to the advancement in the field of wastewater treatment. This book written under working professionals learning project is with the intention of providing sufficient information and knowledge about the principles of wastewater treatment to the water works engineers. This book comprehensively deal with the basic of wastewater treatment, laying emphasis on current trends. To convey ideas and concepts more clearly, the book contains descriptive diagrams with suitable explanation. The book covers a broad spectrum of material dealing with wastewater treatment, as it is far more than just as update of the existing books on wastewater treatment, which includes the latest concepts and processes. This learning material will also be a useful reference book for planners, administrators, students and general readers. It will be of interest to wastewater treatment. One who reads this book systematically from chapter one will surely acquire an understanding on the concepts of wastewater treatment, including schemes of treatment.

Table of Contents

Foreword Preface Chapter 1: Wastewater. **Chapter 2:** Wastewater Treatment. **Chapter 3:** Preliminary and Primary Treatment units. **Chapter 4:** Sedimentation. **Chapter 5:** Biological Treatment Processes. **Chapter 6:** Activated Sludge Process. **Chapter 7:** Advanced Wastewater Treatment. **Chapter 8:** Natural Treatment System. **Chapter 9:** Residual Management. **Chapter 10:** Membrane Treatment Systems. **References Glossary Abbreviations**

Author

Dr. P. N. Ravindra The author of this book is working as Assistant Executive Engineering for Bangalore Water Supply and Sewerage Board (BWSSB) and has more than 25 years of working experience in the field of water and wastewater treatment. He has written several books in water discipline and published several research papers. It is a matter of pride and privilege for the author to write a book for his fellow engineers, who can make this book worthwhile. He acknowledges the help he has received from Mr Narayana, Cheif Engineer, (Retd), BWSSB in reviewing the material and also improving the quality of the book. Special thanks to Prof. NR Shetty, Chairman, Project Advisory Committee, ISTE- WPLP and Er AN Parameswaran, Project Officer and his staff, ISTE-WPLP, who have provided valuable suggestions and carried out the coordination in preparation of this material.



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

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