

**WATER SUPPLY:
CONSIDERED MAINLY
FROM A CHEMICAL AND
SANITARY STANDPOINT**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649731510

Water Supply: Considered Mainly from a Chemical and Sanitary Standpoint by Wm. Ripley
Nichols

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WM. RIPLEY NICHOLS

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CONSIDERED MAINLY FROM A

CHEMICAL AND SANITARY STANDPOINT.

BY

WM. RIPLEY NICHOLS,

PROFESSOR AT THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

THIRD EDITION.



NEW YORK:

JOHN WILEY & SONS.

1888.

T D 375
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1888

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P R E F A C E.

THE following pages contain, somewhat amplified, the substance of a course of "Lectures on Water Supply" which the author has been in the habit of delivering before certain classes at the Institute of Technology. It is primarily as an aid to engineering and other students at this and similar institutions that the book is printed. It is hoped, however, that the book will be found of service to young engineers, to persons in charge of water works, to water committees, and to others who are interested in the matter of water supply.

The aim is not to present a complete treatise on water supply for the civil engineer, nor a treatise on water analysis for the chemist, nor a treatise on mycology for the botanist, and certainly not a treatise on sanitary science for the physician, but, rather, to occupy a territory which encroaches on the fields of these and other professions and which belongs exclusively to no one alone—ground, in fact, with which all who are professionally interested in water supply must be more or less familiar.

The metric system of weights and measures is used, as well as the English; tables for the conversion of one system into the other will be found at the end of the volume. In the nomenclature of chemical substances, the old and more familiar terms are generally—although not exclusively employed—such as carbonate of soda and not sodic carbonate, sulphate of lime rather than sulphate of calcium.

The author has quoted freely from other works on the subject, and from his own earlier reports, now mostly out of print.

He would acknowledge especial indebtedness to the Reports of the Rivers Pollution Commission, and to Fischer's *chemische Technologie des Wassers*, and regrets that *Wolffhügels Wasserversorgung* did not come to hand until the manuscript was in the hands of the printer.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY,

Boston, Mass., *May*, 1883.

TABLE OF CONTENTS.

	PAGES
INTRODUCTORY CHAPTER.—SOLUTION.....	1- 16
Solution of solid substances.—Saturated and supersaturated solutions.—Condition of mixed solutions.—Various means of hastening solution.—Effects of dissolved solids.—Solution of gases.—Supersaturated solutions of gases.—Facilitating gaseous solution.—Solubility of liquids in water.—Distinction between solution and suspension.	
CHAPTER I.—DRINKING WATER AND DISEASE.....	17- 28
CHAPTER II.—WATER ANALYSIS.....	29- 47
Suspended matter.—Dissolved gases.—Total solids in solution.—Chlorine.—Hardness.—Combined nitrogen.—Organic matter.—Standards of purity.—Popular tests.—Collection of samples.	
CHAPTER III.—RAIN WATER AS A SOURCE OF SUPPLY.	48- 55
Examination of cistern water.—Natural and artificial ice.—Chemical examination of ice.	
CHAPTER IV.—SURFACE WATERS AS SOURCES OF SUPPLY.	56- 78
Turbidity of streams.—Pollution of streams.—Self-purification of streams.—Oxidation.—Deposition.—Dilution.—Prevention of pollution.	
CHAPTER V.—SURFACE WATERS AS SOURCES OF SUPPLY (<i>continued</i>).	79-104
Animal and vegetable life.—Odors and tastes.—Temperature.—Examination of surface waters.—Variation of surface waters.	
CHAPTER VI.—GROUND WATER AS A SOURCE OF SUPPLY.	105-132
Methods of utilizing ground water.—Effects of pumping on ground water.—Driven wells.—Natural filtration.—Examination of ground water.—Pollution of domestic wells.—Examination of wells.	

	PAGES
CHAPTER VII.—DEEP SEATED WATER AS A SOURCE OF SUPPLY.....	133-145
Artesian wells.—Deep wells.—Characteristics and examination of deep seated water.	
CHAPTER VIII.—ARTIFICIAL IMPROVEMENT OF NATU- RAL WATER.....	146-180
Sedimentation.—Storage.—Aeration.—Filtration.—Principles of sand filtration.—Practical results of artificial filtration.—Sand filtra- tion in the United States.—Advantages of covered filter beds.—Ex- pense.—Other filtering materials.—Household filtration.	
CHAPTER IX.—ARTIFICIAL IMPROVEMENT OF NATU- RAL WATER (<i>continued</i>).....	181-193
Softening of hard water.—Temporary hardness.—Permanent hard- ness.—Chemical processes.—Distillation.	
CHAPTER X.—SOME GENERAL CONSIDERATIONS.....	194-215
Quantity and waste.—Conduits and distribution pipes.—Service pipes.	
BIBLIOGRAPHY.....	216-220
TABLES FOR CALCULATIONS.....	221-225