

**TEXT-BOOKS OF CHEMICAL  
RESEARCH AND ENGINEERING:  
AN  
INTRODUCTION TO THE PHYSICS  
AND CHEMISTRY OF COLLOIDS**

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Text-Books of Chemical Research and Engineering: An Introduction to the Physics and Chemistry of Colloids by Emil Hatschek

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**EMIL HATSCHEK**

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*TEXT-BOOKS OF CHEMICAL RESEARCH AND ENGINEERING*

AN INTRODUCTION  
TO THE  
PHYSICS AND CHEMISTRY  
OF COLLOIDS

BY  
EMIL HATSCHEK:

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## PREFACE

TO SECOND EDITION.

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In preparing the second edition of this small work the author has thought it advisable to preserve its character as a brief introduction, which may claim to have established its usefulness, rather than to expand it into a text book. Apart from small corrections the only substantial addition to the text of the first edition consists therefore in an appendix on experimental technique. In view of the unfamiliar nature of many of the procedures and devices employed in the investigation of colloids, and in the absence of any work devoted to colloidal laboratory practice even the brief directions given may be of assistance to the student.

EMIL HATSCHEK.

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## PREFACE

TO FIRST EDITION.

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The present work is a slightly enlarged reprint of a series of articles published in *The Chemical World*, which in their turn were based on a course of ten lectures delivered at the Sir John Cass Technical Institute to students of very varied attainments and interested in every branch of chemistry and of chemical industry. The book accordingly does not aim at a completeness precluded alike by its compass and the extremely vigorous growth of the subject, but is only intended to introduce readers with a reasonable knowledge of physics and chemistry to the fundamental facts and methods of a branch of physical chemistry, on the importance of which it is hardly necessary to insist.

Certain features in the selection of subjects and in the order of presenting them, which will be apparent to readers familiar with the existing literature, are due to a vivid recollection of the difficulties experienced by the author in his first studies, and the desire to spare the student as many of these as appear avoidable. Those desirous of ampler and more detailed information are referred to Wolfgang Ostwald's "Grundriss der Kolloidchemie" and H. Freundlich's "Kapillarchemie" English translations of which are urgently required.

EMIL HATSCHEK,

London, 1913.



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