

**RESEARCHES ON
CELLULOSE, IV. (1910-1921)
(VOLUME IV. OF THE
SERIES 'CROSS AND BEVAN')**

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Charles F. Cross & Charles Dorée

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CHARLES F. CROSS & CHARLES DORÉE

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By C. F. CROSS and E. J. BEVAN.

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*WITH FOUR PLATES AND TWELVE DIAGRAMS
IN THE TEXT*

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PREFACE

IN this volume we have shaped our basis of constructive criticism to meet the rapidly changing aspect of the section of science included in the comprehensive term 'Cellulose.' We review a period of eleven years: a period of great scientific development coupled with the intensive technical output occasioned by the war.

The authorship will remind our readers of the death of Edward J. Bevan, who, for forty years, took part in the research work upon which the previous volumes were founded.

We have in view the task of re-writing the original volume ('Cellulose,' 1895), but still defer the undertaking pending a more definite general agreement upon the fundamental aspect of 'Constitution,' which, we have to admit, is still a problem, as the contents of this volume endeavour to show.

In the meantime, this critical survey is a record of progress and, with the preceding volumes, an adumbration of the comprehensive Text-book, which in due time will replace the work of 1895 which, though now ancient, is not entirely out of date.

We have to express our thanks and acknowledgments to the following publishing societies, and to the authors of papers, for permission to reproduce the diagrams and illustrations which we have given: to the Royal Society for Fig. 1 and the photographs on Plate I. (W. L. Balls) and Plate II. (W. Robinson); to the Biochemical Society for the photographs on

Plate IV.; to the Chemical Society for the curves shown in Fig. 4; to the Society of Dyers and Colourists for the photograph on Plate I (*a*) and Fig. 3 (S. J. Lewis) and also for Fig. 12; and finally to the Manchester Literary and Philosophical Society for allowing us to reproduce the paper of H. E. Williams with its illustrations; also to Courtauld's Ltd. and Mr. S. S. Napper (Research Chemist) for permission to publish the note of researches on specific volumes, pp. 22-30.

We are further indebted to our friend, Mr. J. F. Briggs, for the preparation of the Index.

C. F. CROSS,
3 New Court,
Lincoln's Inn, W.C.

C. DORÉE,
Chemistry Department,
Borough Polytechnic Institute, S. E.

June, 1922.

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