

## REVIEW

**Physical Aspects of colour**—By Dr P. J. Bouma (English Translation By W. de Goot) Pp. 312 N. V. Philips. Gocilampfabricken, Eindhoven (The Netherlands), 1947. Price Rs. 15/-.

This book deals with the science of measurement of colour. The original manuscript written in Dutch by Dr P. Bouma, an Illuminating Engineer, was published in 1946 and the present translation in English was published in 1947 after the death of Dr. Bouma in January, 1947. Some of the sections have been rewritten in this English translation in order to incorporate results of some recent investigations in this line.

The author has indicated in the preface that he has approached the subject from the points of view of experimental physics and illuminating engineering. The book is divided into fourteen chapters. After explaining in the first chapter parts played by light sources, coloured objects and the eye in making the colour visible, the author deals with the influence of brightness on colour sensation and also with the functions of relative luminosity curves at high and low brightnesses. In Chapter III the convention of expressing any colour by defining its position in a plane colour triangle has been explained with illustrations and the next chapter deals with the convention of colour space in which any colour has a fixed position according to its brightness.

Chapters V and VI deal with the XYZ system adopted by Commission Internationale de l'Éclairage (C. I. E.) and the method of calculation of colour co-ordinate in this system has been explained with the help of suitable examples. In Chapter VII a few special light sources have been described and their functions in colorimetry have been explained. Chapters VIII and IX deal with methods in objective and subjective colorimetry. Chapter X deals with various types of defective colour vision and in the next chapter a brief review of the historical development of colour science has been given. Chapters XII and XIII deal with discrimination of hues and character of colour sensation respectively. In the last chapter some applications of colorimetry, especially those in illuminating engineering and colour reproduction, have been discussed in detail. In the Appendix there are some tables useful for the measurement of colour and also a bibliography of the references has been included at the end.

The book is extremely helpful to illuminating engineers and to those who are interested in reproduction of colour. There are 113 illustrations and the get-up leaves nothing to be desired. The price seems to be quite moderate. The book is available with the Technical & Scientific Literature Department, Messrs. Philips Electrical Co. (India) Ltd., 2 Heysham Road, Calcutta.

S. C. S.