FLUORESCENT LAMPS

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FLUORESCENT LAMPS

Edited by W. Elenbaas

MACMILLAN

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Preface

The 1962 edition of 'Fluorescent lamps and lighting' has here been brought up to date. Since the extent of the subject has again increased, it was decided not to deal with applications in this book.

The authors of the first nine chapters of the 1962 book have been joined by Messrs. Moerkens and Vrenken. The sequence of the chapters has been changed somewhat.

We start with a chapter on 'gaseous discharges' and one on 'the discharge of the fluorescent lamp'. Then follows 'luminescence' and 'luminescent substances' after which a chapter 'lamp design and lamp manufacture' is inserted. A chapter on 'colour and colour rendering' treats this subject, which is so closely connected with the phosphors that we like to treat it here. The 'stabilisation' and the 'lamp types and circuits' are treated in the two next chapters, after which chapters on 'invertors and convertors', on 'dimmers' and on 'ballast design' follow. The book is concluded with a chapter on 'installations' in which regulations, radio interference, heat problems, etc. are treated. Electronics have become very important in the circuits used and have therefore been given ample attention in this book.

The sections marked at the beginning and end with a dagger (†) are intended for those readers who are interested in a more detailed discussion. If desired, however, these sections can be passed over without disturbing the continuity of the remainder of the text.

W. ELENBAAS

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