



# **The Chemistry of Artificial Lighting Devices: Lamps, Phosphors and Cathode Ray Tubes (Studies in Inorganic Chemistry)**

*Richard C. Ropp*

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Both the early use of artificial lighting and current manufacturing methods concerning incandescent and fluorescent lamps are covered in this book. The protocols for manufacture of fluorescent lamp phosphors and those used in cathode ray tubes are also treated in some detail. This text surveys the amazing, vast array of artificial lighting devices known to date in terms of how they arose and are, or have been used by mankind.

A complete description of the formulations and methodology for manufacturing all known phosphors is given. The book will serve as a repository of such phosphor manufacturing methods, including that of cathode ray tube phosphors. Methods of manufacture of *lamp parts* are also presented, including that of tungsten wire. The original approaches used are described as well as improvements in technology. These will serve as comparative methods for present day manufacture of these components. A history of the lamp industry is presented. Several methods are given which may serve as a source for further work in the lamp industry. Some of the earliest work has been applied in the laser industry to develop new types of discharge lasers. These include nitrogen-gas lasers and the rare gas (excimer) lasers. Previous work on lamps may also be applied in the development of new types of lasers.

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