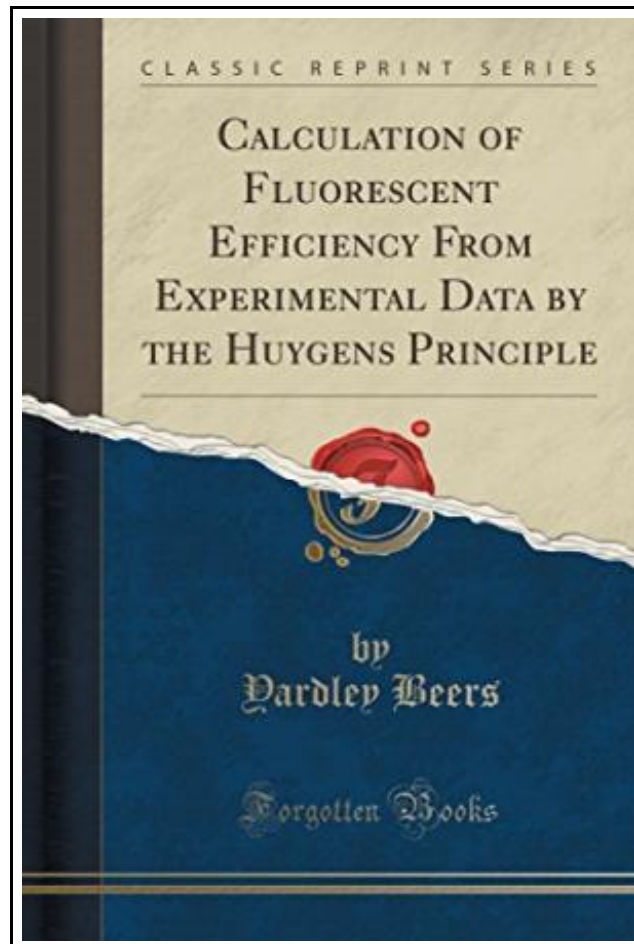


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Forgotten Books, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from *Calculation of Fluorescent Efficiency From Experimental Data by the Huygens Principle* This paper concerns the situation of a fluorescent semiconducting layer deposited upon a substrate. It is desired to compute the number of quanta of fluorescent radiation per quantum absorbed of the pump radiation. The principal topic which is discussed is the theory of the Huygens Principle method which gives the intensity of the emitted light in terms of the power of an array of point sources in the semiconductor. The method used is a direct application of Huygens Principle to the individual waves that are multiply reflected by the boundary surfaces. the results are given in terms of the constants of the materials, the dimensions, and three quantum numbers, (1) P , the number of two-way trips in the semiconductor, (2) Q , the number of round trips in the substrate, and (3) S , the number of two-way penetrations of the boundary between them. Because of approximations used, the method is mainly useful for radiation emerging nearly normal to the surfaces. For light within 10° to the normal the errors are not more than a few percent. The Huygens Principle method is also developed for use with planar external sources, and this method is compared with the impedance methods. The calculations made with external sources are needed for determining the non-fluorescent optical constants of the materials. Key Words: Absolute fluorescent efficiency; optical loss constants; index of refraction; Huygens Principle; characteristic wave impedance. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work,...



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