

Preface

This book deals with the methods of calibration of light sources and photodetectors, as well as spectral responsivity of optical instruments and absolute measurements of spectral photon flux from photoprocesses under study in wide spectral range, from near infrared to vacuum ultraviolet, $\lambda \approx 1,200\text{--}100\text{ nm}$, and wide range of radiation intensities, up to several quanta per second in absolute and arbitrary units. It provides useful information about characteristics of physical and chemical detectors of radiation, which have not been described in the well-known literature. This book is directed to the readers who in the course of their work, in particular, experiments, have to measure luminescence spectra, spectral radiation intensities in wide, from infrared to vacuum ultraviolet, spectral range in wide light intensity range, to calibrate light sources and light detectors in these ranges, and to determine quantum yields of photoprocesses in absolute or arbitrary units. The book can be used as a textbook for students and postgraduate students who in the course of their future work will deal with the measurements mentioned above.

St. Petersburg, Russia

A. M. Pravilov



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Anatoly, P.

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