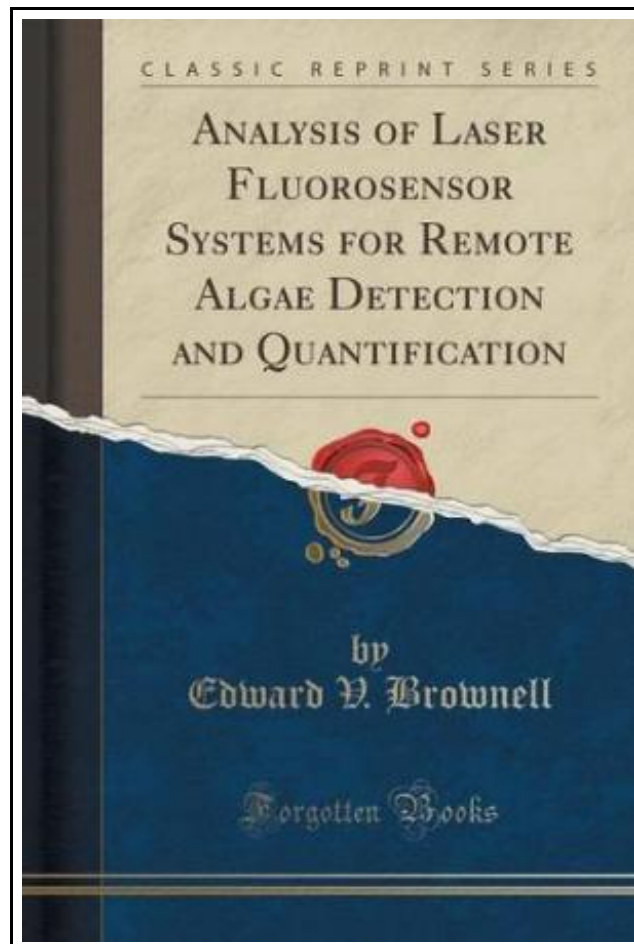


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ANALYSIS OF LASER FLUOROSENSOR SYSTEMS FOR REMOTE ALGAE DETECTION AND QUANTIFICATION (CLASSIC REPRINT)



Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Analysis of Laser Fluorosensor Systems for Remote Algae Detection and Quantification The development and performance of single - and multiple-wavelength laser fluorosensor systems for use in the remote detection and quantification of algae are discussed in this paper. The appropriate equation for the fluorescence power received by a laser fluorosensor system is derived in detail, and the result is found to differ by as much as a factor of 10 from those previously reported in the literature. Experimental development of a single-wavelength system and a four-wavelength system, which selectively excites the algae contained in the four primary algal color groups (green, golden-brown, red, and blue-green), is reviewed, and test results are shown. A comprehensive error analysis is reported which evaluates the uncertainty in the remote determination of the chlorophyll a concentration contained in algae by single- and multiple-wavelength laser fluorosensor systems. Environmental parameters which can greatly affect the fluorescence cross section of algae include long- and short-term light history and nutrient and age effects. Results of the error analysis indicate that the remote quantification of chlorophyll a by a laser fluorosensor system requires optimum excitation wavelength (s), remote measurement of marine attenuation coefficients, and supplemental instrumentation to reduce uncertainties in the algal fluorescence cross sections. Without these additional measurements, both the single- and multiple-wavelength laser fluorosensor systems can only provide qualitative information about chlorophyll a concentration contained in the algae, and the single-wavelength system yields results which are comparable to a multiple-wavelength system which has optimum excitation wavelengths. Introduction An algae laser fluorosensor system consists of a laser, which is used to directly or indirectly excite the chlorophyll a pigment contained in algae, and a collocated telescope receiver...



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