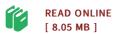




## Analysis of Laser Fluorosensor Systems for Remote Algae Detection and Quantification (Classic Reprint)

By Edward V Brownell

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 bluegreen), 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...



## Reviews

This created pdf is excellent. We have read through and i also am sure that i am going to going to study yet again yet again in the future. You will not truly feel monotony at at any time of your time (that's what catalogues are for concerning should you check with me).

-- Myriam Bode

I just started out reading this ebook. We have read and so i am certain that i am going to gonna study yet again again in the future. I found out this book from my dad and i encouraged this publication to find out.

-- Kristoffer Kuhic