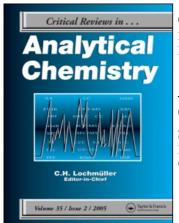
This article was downloaded by:

On: 17 January 2011

Access details: Access Details: Free Access

Publisher Taylor & Francis

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-41 Mortimer Street, London W1T 3JH, UK



## Critical Reviews in Analytical Chemistry

Publication details, including instructions for authors and subscription information: http://www.informaworld.com/smpp/title~content=t713400837

A Review of: "Photodegradation of Water Pollutants, Martin M. Halmann, CRC Press, Boca Raton, 1996, 320 pp. ISBN 08493-2459-9. (Hardbound), \$74.95"

Peter C. Udena

<sup>a</sup> Department of Chemistry, University of Massachusetts, Amherst, MA

**To cite this Article** Uden, Peter C.(1997) 'A Review of: "Photodegradation of Water Pollutants, Martin M. Halmann, CRC Press, Boca Raton, 1996, 320 pp. ISBN 08493-2459-9. (Hardbound), \$74.95", Critical Reviews in Analytical Chemistry, 27: 3, ii

To link to this Article: DOI: 10.1080/10408349708052198 URL: http://dx.doi.org/10.1080/10408349708052198

## PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: http://www.informaworld.com/terms-and-conditions-of-access.pdf

This article may be used for research, teaching and private study purposes. Any substantial or systematic reproduction, re-distribution, re-selling, loan or sub-licensing, systematic supply or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

## **BOOK REVIEW**

Photodegradation of Water Pollutants Martin M. Halmann CRC Press, Boca Raton, 1996 320 pp. ISBN 08493-2459-9. (Hardbound), \$74.95

Reviewer: Peter C. Uden, Department of Chemistry, University of Massachusetts, Amherst, MA 01003.

There are a number of goals set for this text by the author — an acknowledged authority in the fields of organic photochemistry and water pollutant treatment and detoxification. For the practicing environmental chemist and engineer, it aims to provide a rigorous and extensive chemical background relating to the wide range of photochemical reactions undergone by both inorganic and organic species during treatment processes carried out either with or without other chemical agents. For researchers and students it provides a comprehensive review of the theory and practice of anion and cation inorganic and organometallic photochemistry. It further surveys reaction chemistries of hydrocarbons, halocarbons, organosulfur, — nitrogen and — phosphorus compounds and provides a fertile basis for developmental detoxification chemistry. It also targets as a support text for advanced course work in environmental science and engineering.

The material is presented in an attractive, well-organized fashion with a good balance of photochemical reaction chemistry and literature review and critique. The literature citations are extremely comprehensive and draw together the wide range of subject areas and journals wherein this diverse field is referenced. The reader with less chemical background may find it necessary to supplement the material with background reference to fundamental organic reaction chemistry but the book's layout should make this quite straightforward. The reader may choose to focus upon the particular organic or inorganic pollutant class of their interest, and derive a coherent view of the necessary chemical background, without need to review the whole text. The final chapters on natural transformations and treatment processes in groundwater, wastewater, fresh and ocean waters, and on overall evaluation of photodegradation processes were found by this reviewer to be of considerable value to the general reader as well as the specialist.

This is indeed a book for the specialist, or at least for the focused professional. However it is a valuable resource for pertinent chemical information, clearly presented which should certainly be in any library of analytical and environmental water and pollution chemists.