



Applications of Hydrogen Peroxide and Derivatives: RSC (RSC Clean Technology Monographs)

By C W Jones

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Simple, but beautifully versatile. Perhaps not a description many would choose for hydrogen peroxide, but an accurate one none the less, and this unique book explains the reasons behind the description. Beginning with an historical overview, and guidelines for the safe handling of peroxygens, Applications of Hydrogen Peroxide and Derivatives goes on to cover key activation mechanisms, organic functional group oxidations and the use of hydrogen peroxide with heterogeneous catalysts. The clean-up of environmental pollutants; chemical purification; and extraction of metals from their ores are also discussed in detail, using actual examples from industry. The versatility of this reagent may well prove to be a key to integrated pollution control in the future. This book should therefore be read by academics and industrialists at all levels, to encourage wider applications of the use of hydrogen peroxide in laboratories.

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Applications of Hydrogen Peroxide and Derivatives: RSC (RSC Clean Technology Monographs) By C W Jones Bibliography

- Sales Rank: #3149158 in Books
- Published on: 1999-11-05
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .90" w x 6.14" l, 1.30 pounds
- Binding: Hardcover
- 274 pages

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Editorial Review

Review

"... well-organized and enjoyable overview ... this useful book is strongly recommended to anyone interested in oxidation or peroxygen chemistry ..." (*Journal of the American Chemical Society*, Vol 122, No 26, 2000)

"... an excellent reference and general text ... well-written, and particularly suited to practising organic chemists from academia and industry, at graduate and post-graduate levels." (*Green Chemistry Web Site*)

"... a very useful book ... facilitates the location of primary references including the patent literature. It can be recommended for students and practitioners of synthetic organic chemistry, environmental protection and clean-up, as well as catalytic oxidation." (*React. Kinet. Catal. Lett.*, Volume 71, No 1, 199-200, 2000)

"... industrial chemists will welcome the applied chemistry details and the extensive references to the patent literature ... The book is recommended to industrial organic chemists and chemical engineers seeking environmentally friendly synthetic routes, and processes, and for those looking for treatment options for difficult waste streams. The monograph should be in every industrial library." (*Organic Process Research & Development*, 2000, 4, 232-234)

"The book has been well researched with an excellent bibliography and should be a useful text for academics and industrialists for years to come." (*Chromatographia*, 2001, Vol 53, p 98)

About the Author

James H Clark is Professor of Chemistry and Director of the Green Chemistry Centre of Excellence, The University of York, UK. He has led the green chemistry movement in Europe for the last 15 years and was the first scientific editor of the journal *Green Chemistry* and is Editor-in-chief of the RSC Green Chemistry book series.

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