



Thermodynamics, Solubility and Environmental Issues

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Environmental problems are becoming an important aspect of our lives as industries grow apace with populations throughout the world. *Thermodynamics, Solubility and Environmental Issues* highlights some of the problems and shows how chemistry can help to reduce these them. The unifying theme is Solubility – the most basic and important of thermodynamic properties. This informative book looks at the importance and applications of solubility and thermodynamics, in understanding and in reducing chemical pollution in the environment.

Written by experts in their respective fields and representing the latest findings in this very important and broad area. A collection of twenty-five chapters cover a wide range of topics including; mining, polymer manufacture and applications, radioactive wastes, industries in general, agro-chemicals, soil pollution and biology, together with the basic theory and recent developments in the modelling of environmental pollutants.

- Latest research into solving some of the most important environmental problems
- Covering new technologies, new chemicals and new processes eg, biodegradable polymers, ionic liquids and green chemistry
- Contains the basic theories and underlying importance of solubility

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Editorial Review

About the Author

Trevor M Letcher is Emeritus Professor of Chemistry at the University of KwaZulu-Natal, Durban and a Fellow of the Royal Society of Chemistry. He is a past Director of the International Association of Chemical Thermodynamics and his research involves the thermodynamics of liquid mixtures and energy from landfill. He was awarded the South African Chemical Institute's Gold medal in 1999 and in 2000 he was awarded the South African Gold medal by the South African Association for the Advancement of Science. He has published over 250 papers in peer review journals and has edited, co-edited and written eleven books in his research and related fields. His latest books include Unraveling Environmental Disasters (2012), Materials for a Sustainable Future (2012), Waste (2011), Heat Capacities (2010), Climate Change (2009) and Future Energy (2008).

His leisure activities involve regular hikes with the Mendip Ramblers, woodwork (long case clocks) and wood turning, gardening at home and on his allotment, theatre, reading and playing golf.

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