Advanced ESR Methods in Polymer Research
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DESCRIPTION

A definitive work on ESR and polymer science by today's leading authorities

The past twenty years have seen extraordinary advances in electron spin resonance (ESR) techniques, particularly as they apply to polymeric materials. With contributions from over a dozen of the world's top polymer scientists, Advanced ESR Methods in Polymer Research is the first book to bring together all the current trends in this exciting field into one comprehensive reference.

Part I establishes the fundamentals of ESR, from experimental techniques to data analysis, and serves as a valuable overview for the beginning ESR student. Part II introduces the broad range of ESR applications to polymeric systems, including living radical polymerization, block copoly-mers, polymer solutions, ion-containing polymers, polymer lattices, membranes in fuel cells, degradation, polymer coatings, dendrimers, and conductive polymers. By exposing readers to the great potential of ESR, the authors hope to encourage more extensive application of these methods.

ABOUT THE AUTHOR

SHULAMITH SCHLICK, DSc, is a Professor of Physical and Polymer Chemistry in the Department of Chemistry and Biochemistry, University of Detroit Mercy. One of the foremost authorities in the field of polymer research, and the editor of one previous book,
Dr. Schlick has held visiting professorships and appointments worldwide and has authored over 200 scientific articles and book chapters.

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