



Nuclear Corrosion Modeling: The Nature of CRUD

Roy Castelli

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Corrosion in nuclear power plants cause reductions in efficiency and increases in deposit build-up on plant surfaces, making for expensive maintenance and potential radiological health hazards. This book guides studies to predict and minimize corrosion, thus making nuclear power safer and more cost effective. Too often, reliance on empirical models and on-site testing of existing plants makes study and prediction of corrosive effects in nuclear reactors into a pricey and lengthy process. Introducing the experimental procedures, set up, sample preparation and computer modeling suggested in this book will save precious time and resources in a field where the significant time and expense to get and keep plants on-line are two of the chief concerns preventing broader commercial viability.

- * The only book to focus exclusively on preventing nuclear corrosion
- * Uses computer modelling to tie together chemical engineering, civil engineering, corrosion science, and nuclear engineering into a cohesive solution to a vexing nuclear problem
- * Includes all fundamental equations, example data sets and experimental techniques

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