

# NUCLEAR REACTOR ENGINEERING

Third Edition

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The purpose of this book is to present the principles of nuclear reactor systems and power. The main emphasis is on those aspects related to the fission process and on those areas that are not unique to nuclear reactors. The book will serve as a text for students and as a reference for engineers.

The design of a nuclear reactor involves the cooperation of groups of specialists in many fields. Individual aspects are dependent on the specific reactor. An engineer must acquire a broad, general background in engineering before specializing in a particular area in order to provide such a perspective.

In recent years, several technical systems have adopted the International System of Units in their publications. For this reason, the system in simplifying calculation of the system and convenient presentation of the Appendix.

In preparing this book we have received many helpful reviews and suggestions from our reviewers. In particular, we are indebted to O. H. Gailar, J. A. Horak, F. Kerze and D. K. Tubey. We are also indebted to those who prepared the manuscript for publication.

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