

Materials for Engineering

# CRYSTALLINE MATERIALS FOR ACTINIDE IMMOBILISATION

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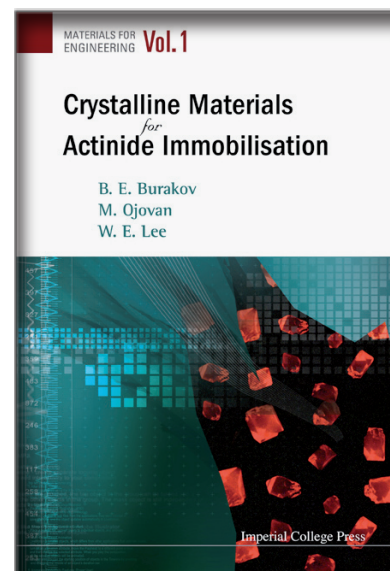
This book summarises approaches and current practices in actinide immobilisation using chemically-durable crystalline materials e.g. ceramics and monocrystals.

The choice of an optimal actinide immobilisation route is often a great challenge for specialists. There is a wealth of information about actinide properties in many publications although little is published to summarise the currently accepted approaches and practices on actinide immobilisation. This book intends to provide such information based on the authors' experience and studies in nuclear material management and actinide immobilisation.

**Readership:** Undergraduates, post-graduates, researchers and specialists studying physics, chemistry, geology and environmental engineering with an interest in the welfare of planet.

#### Key Features

- The book is intended for specialists interested in environmentally-safe use of radionuclides, nuclear power and nuclear waste management experts, radiochemists, geochemists, geologists, nuclear physicists, material science experts, solid state physicists and cancer treatment experts



- The book focuses on actinide immobilisation using ceramics to ensure safe conditions of use in various applications as well as a safe final disposal of nuclear waste actinides
- The book can be useful for post-graduate students and researchers but will also be useful for undergraduates studying physics, chemistry, geography, geology and environmental or other engineering disciplines with an interest in the welfare of the planet

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