

Contents

1	Introduction to Uranium	1
	Nathan R. Gubel, Kenneth H. Eckelmeyer, Kimberly N. Johnson, Mark J. Jackson, and Jonathan S. Morrell	
2	Melting and Casting of Uranium	35
	Edward B. Ripley	
3	Machining of Uranium and Uranium Alloys with Coated Cutting Tools	71
	Mark J. Jackson, Grant M. Robinson, Michael D. Whitfield, Rodney G. Handy, and Jonathan S. Morrell	
4	Grinding of Uranium and Uranium Alloys	95
	Mark J. Jackson, Micheal D. Whitfield, Grant M. Robinson, Rodney G. Handy, and Jonathan S. Morrell	
5	Uranium Processing	123
	Brajendra Mishra, Nathan R. Gubel, and Rahul Bhola	
6	The Uranium–Hydrogen Binary System	173
	G. Louis Powell	
7	Uranium Corrosion Near Ambient Temperature	189
	G. Louis Powell	
8	Nondestructive Evaluation of Uranium: Fundamentals and Future	207
	Jonathan Poncelow, David L. Olson, Cameron Howard, Kamalu Koenig, and Craig VanHorn	

9 High-Density, Low-Enriched Uranium-Based Target for Radioisotope Production	269
Gary L. Solbrekken, Kyler K. Turner, and Srisharan G. Govindarajan	
Editors Biography	307
Index	311

Uranium Processing and Properties

Morrell, J.S.; Jackson, M.J. (Eds.)

2013, X, 313 p., Hardcover

ISBN: 978-1-4614-7590-3