



# **Analysis of the New Metals: Titanium, Zirconium, Hafnium, Niobium, Tantalum, Tungsten and Their Alloys**

*W. T. Elwell, D. F. Wood*

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Analysis of the New Metals: Titanium, Zirconium, Hafnium, Niobium, Tantalum, Tungsten and their Alloys focuses on methods for the analysis of titanium, zirconium, hafnium, niobium, tantalum, tungsten, and their alloys. Emphasis is on the procedures used in Imperial Metal Industries (Kynoch) Limited's laboratories for the analysis of these metals. These procedures include the oxide-resin procedure, solution procedure, and the point-to-plane spectrographic procedure.

Comprised of six chapters, this book begins with an overview of special procedures for obtaining representative samples, including the use of titanium or zirconium sponge (Kroll process) as well as titanium granules (ICI sodium process). Subsequent chapters discuss the identification of titanium and its alloys such as aluminum, boron, calcium, carbon, and copper by means of the point-to-plane spectrographic procedure, a Fuess metal spectroscope, and chemical spot-tests; spectroscopic analysis of zirconium, zirconium alloys, and ionide-refined hafnium; and spectroscopic analysis of niobium, tantalum, tungsten, and their alloys. This monograph will be useful for undergraduate students, educators, practitioners, and researchers in metallurgy.



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