



# Nuclides and Isotopes : Chart of the Nuclides - 17th Edition

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## **Nuclides and Isotopes : Chart of the Nuclides - 17th Edition** Lockheed Martin

The Chart presents the key nuclear properties of every known stable and radioactive form of each element. It has been compiled, edited, and periodically revised by KAPL scientists since 1956. This 17th Edition published in 2010, superceding the 16th Edition from 2002 and all previous versions. Description: This product consists of a 100-page soft cover book that describes the history of the development of the periodic table and earlier charts of the nuclides, detailed explanations of the information presented on the chart, discussions of trends in stability of the nuclides on the chart, unit conversion factors, and fundamental physics constants. Contained within the book are detailed full-page charts that present critical nuclear data such as masses, relative abundances, half lives, neutron cross sections, and decay properties for 2900 nuclides and isotopes. These charts plot the nuclides with their atomic numbers along the vertical axis and their neutron number along the horizontal axis. Color coding emphasizes half lives and neutron absorption properties. - A short history of the development of the periodic table and earlier charts of the nuclides - Detailed descriptions of the types of information given on the Chart - A discussion of trends in stability and instability of nuclides on the Chart - Unit conversion factors and values of fundamental physics constants The Chart is a "must have" document for students and professionals in nuclear physics, chemistry, engineering, and medicine.

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