

SOME INFORMATION SOURCES FOR THE ELEMENTS

TO FIND BOOKS ON INDIVIDUAL ELEMENTS, SEARCH THE ONLINE CATALOG USING THE NAME AS A SUBJECT ENTRY
[*EXAMPLE: S=TUNGSTEN*].

IF YOU ARE NOT LOCATING WHAT YOU NEED, *TALK WITH A REFERENCE PERSON*

<u>Reference Tool</u>	<u>Size/Scope</u>	<u>Arrangement of Material</u>	<u>Information Provided</u>	<u>Indexes, Special Features</u>
(1) Encyclopedia of the Chemical Elements , 1968. QD 466 H22 Physical Sciences STACKS	<ul style="list-style-type: none"> • 1 volume • Covers 103 elements. 	<ul style="list-style-type: none"> • Alphabetically by element name with articles on general subjects interspersed. 	<ul style="list-style-type: none"> • Varies by element. • Usually contains: <ul style="list-style-type: none"> -chemical properties -physical properties 	<ul style="list-style-type: none"> • Alphabetic subject index • Book contains ca. 20 general articles [Example:noble gases].
(2) Elements , 1991. QD 466 E55 1991 Physical Sciences REFERENCE	<ul style="list-style-type: none"> • 1 volume • Covers 105 elements. 	<ul style="list-style-type: none"> • Alphabetically by element name. 	<ul style="list-style-type: none"> • Chemical properties • Physical properties • Electron shell properties • Other properties 	<ul style="list-style-type: none"> • Alphabetic subject index • Tables 1-20 list elements in order by property value.
(3) CRC Handbook of Chemistry and Physics , 77th ed., 1996-97 Physical Sciences REFERENCE	<ul style="list-style-type: none"> • 1 volume • Discusses through element 110 [excluding 108]. 	<ul style="list-style-type: none"> • Properties of elements are contained in various tables. • SEE INDEX. 	<ul style="list-style-type: none"> • Index entry 'Elements' has 42 sub-entries including: <ul style="list-style-type: none"> -melting point -boiling point 	<ul style="list-style-type: none"> • Alphabetic subject index. - SEE entries under 'elements' and under element names.
(4) Chemistry of the Elements , 1984. QD 466 G81 Physical Sciences REFERENCE	<ul style="list-style-type: none"> • 1 volume • Covers 103 elements. • Discusses elements above 103. 	<ul style="list-style-type: none"> • Arranged by periodic groups. • SEE TABLE OF CONTENTS. 	<ul style="list-style-type: none"> • Varies with group. • SEE SUBJECT INDEX. 	<ul style="list-style-type: none"> • Alphabetic subject index • Appendices 1-7 contain other useful information [Example:Atomic orbitals].

FURTHER INFORMATION SOURCES FOR THE ELEMENTS

<u>Reference Tool</u>	<u>Size/Scope</u>	<u>Arrangement of Material</u>	<u>Information Provided</u>	<u>Indexes, Special Features</u>
(5) Handbook of the Physicochemical Properties of the Elements , 1968. QD 466 A31 1968 Physical Sciences REFERENCE	<ul style="list-style-type: none"> • 1 volume • Covers 104 elements. 	<ul style="list-style-type: none"> • Arranged based on type of property. • SEE CHAPTER HEADINGS IN TABLE OF CONTENTS. 	<ul style="list-style-type: none"> • Chemical properties • Mechanical properties • Thermodynamic properties • Other properties 	<ul style="list-style-type: none"> • SEE TABLE OF CONTENTS- CHAPTER HEADINGS GUIDE YOU TO THE PROPERTIES.
(6) Graphical Handbook of Chemistry and Metallurgy , 1965. QD 467 L88 G7 Physical Sciences REFERENCE	<ul style="list-style-type: none"> • 1 volume • Covers 103 elements. 	<ul style="list-style-type: none"> • Arranged alphabetically by property. 	<ul style="list-style-type: none"> • Chemical properties • Physical properties • Mechanical properties • Metallurgical properties 	<ul style="list-style-type: none"> • SEE TABLE OF CONTENTS • DATA PRESENTED GRAPHICALLY.
(7) “Landolt-Bornstein” Q 199 L25 Physical Sciences REFERENCE	<ul style="list-style-type: none"> • Several volumes are on elements. • Covers mostly metallics. 	<ul style="list-style-type: none"> • By group • SEE LB GUIDE TO DATA FOR LIST OF GROUPS; [example: “Technical Materials” contains metallic elements. 	<ul style="list-style-type: none"> • Physical properties • Chemical properties • Magnetic properties • Other properties 	<ul style="list-style-type: none"> • Comprehensive index - SEE, for example, entries under melting point and magnesium.
(8) Gmelins Handbuch der Anorganischen Chemie , 1924-1990. QD 151 G5 Physical Sciences STACKS	<ul style="list-style-type: none"> • Many volumes on elements. • Covers 103 elements. 	<ul style="list-style-type: none"> • Individual volumes on elements easily found by browsing spine titles. 	<ul style="list-style-type: none"> • Physical properties • Chemical properties • Mechanical properties • Many other properties 	<ul style="list-style-type: none"> • Cumulative formula Index • Volume indexes • SEE TABLE OF CONTENTS OF INDIVIDUAL VOLUMES ON DESIRED ELEMENT.

NOTE: ON THE WEB, GO TO **WEBELEMENTS** at <http://www.cchem.berkeley.edu/Table/index.html> for more properties by element name.

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