

## *Crystallography Key Resources*

- \*Atlas of Crystal Structure Types for Intermetallic Phases **4 volumes**  
**Located: TN690.4 .D33 1991 Engineering & Science Library Reference**
  
- \*Binary Alloy Phase Diagrams **3 volumes**  
**Located: TN690. B528 1990 Engineering & Science Library Reference**
  
- \*Binary Alloy Phase Diagrams, **Featuring: Crystal Structure Tables**  
**Located: Engineering & Science Library, loaded on 1 public computer**
  
- \*Crystal Structures by **R.W.G. Wyckoff 6 volumes**  
**Located: QD951 .W82 Engineering & Science Library Reference**
  
- \*International Tables for Crystallography  
A=Space-Group Symmetry B=Reciprocal Space  
C=Mathematical, Physical and Chemical Tables D=Physical Properties of Crystals  
**Located: QD908.I56 Engineering & Science Library Reference**  
**Available ONLINE at: <http://it.iucr.org>**
  
- \*International Tables for X-Ray Crystallography  
**Located: QD945 .I55 Engineering & Science Library Reference Vol. 1-3**  
**Also at Mellon Institute Library: QD908 .I61 Volumes 1-4**
  
- \*Landolt-Börnstein Numerical Relationships in Science and Technology  
**Located: QC61 .L332 Engineering & Science Library Reference**  
**Crystal structure volumes:**  
**III, pt. 5 and III, pt. 10: Structure Data of Organic Crystals**  
**III, pt. 6 and III, pt. 14: Structure Data of Elements and Intermetallic Phases**  
**III, pt. 7: Crystal Structure Data of Inorganic Compounds**  
**III, pt. 8: Epitaxy Data of Inorganic and Organic Crystals**
  
- \*Pearson's Handbook: Crystallographic Data for Intermetallic Phases  
**2<sup>nd</sup> edition, 4 volumes and Desk Edition, 2 volumes**  
**Located: TN690.4 .V55 Engineering & Science Library Reference**
  
- \*Smithells Metals Reference Book  
**Located: TN 671 .S55 2004 Engineering & Science Library Reference**  
**Also available thru Knovel: <http://www.knovel.com/web/portal/browse>**
  
- \*Structure reports / International Union of Crystallography  
**Located: QD921 .I611 Engineering & Science Library Reference**

*Crystallography -- Select online resources and databases*

**American Crystallographic Association:** <http://aca.hwi.buffalo.edu/>

See: "Links of Interest" for Crystallographic resources

**American Mineralogist Crystal Structure Database**

<http://rruff.geo.arizona.edu/AMS/amcsd.php>

**Biological Macromolecule Crystallization Database**

<http://xpdb.nist.gov:8060/BMCD4/index.faces>

**Cambridge Crystallographic Data Centre** <http://www.ccdc.cam.ac.uk/>

Cambridge Structural Database (CSD)

**CRC Handbook of Chemistry and Physics (Online)** <http://hbcernetbase.com/>

**Crystal Lattice Structures/** NRL, Center for Computational Materials Science:

<http://cst-www.nrl.navy.mil/lattice/index.html>

**Crystallography and Phase Equilibria, A Review: Part 1- Basics, *Journal of Phase Equilibria and Diffusion* provided by ASM:**

<http://www.asminternational.org/pdf/spotlights/JPED2505p405.pdf>

**Crystallography Open Database** <http://www.crystallography.net/>

**International Union of Crystallography** <http://www.iucr.org/>

**Open Crystallography Journal** <http://www.bentham.org/open/tocryj/>

**Reciprocal Net:** <http://www.reciprocalnet.org/index.html>

"a distributed crystallography network for researchers, students and the general public"

**SciFinder Scholar – Chemical Abstracts**

<http://eps.library.cmu.edu/rooms/documents/libraries-and-collections/Search/DB/scifinder.html>

Featuring: Explore Substances, Substance Identifier—Get References for: Crystal Structure

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**Structure of Materials: An Introduction to Crystallography,  
Diffraction and Symmetry** by Marc De Graef and Michael E. McHenry  
Engineering and Science Library: TA403.6 .D447X 2007

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[http://search.library.cmu.edu/rooms/portal/page/21344\\_Materials\\_Science\\_and\\_Engineering](http://search.library.cmu.edu/rooms/portal/page/21344_Materials_Science_and_Engineering)