

1. Record Nr.	UNINA9910596906803321
Titolo	Bonding in metals // Video Education Australasia
Pubbl/distr/stampa	New York, N.Y., : Infobase, [2005], c1997
Descrizione fisica	1 streaming video file (22 min.) : sd., col., digital file + + instructional materials (online)
Collana	Chemical Bonding
Soggetti	Chemical bonds Educational films. Internet videos. Videorecording
Lingua di pubblicazione	Inglese
Formato	Videoregistrazione
Livello bibliografico	Monografia
Nota di contenuto	Properties and Structure of Metals (2:13) -- Structure of Atoms (2:09) -- Electron Shells and Bonding in Metals (2:48) -- Delocalization, Electric Conductivity (2:00) -- State Change in Metals (2:33) -- Cooling of Molten Metals (3:31) -- Properties of Metals and Alloys (4:56)
Sommario/riassunto	This program begins with an examination of atomic structure-presented in terms of protons, neutrons, and electrons-and the idea that bonding is related to the filling of electron shells to create more stable particles. Examples of metals and their usefulness are presented, and the relationship between properties and structure is examined. Other processes demonstrated include the formation of metallic bonds by the delocalization of outer shell electrons; change of state from solids to liquids; cooling of molten metal to form crystals; and the effect of rate of cooling on metal materials.