Record Nr.	UNINA9910741320903321
Titolo	Applications and Use of Diamond / / John Guodong, editor
Pubbl/distr/stampa	London: ,: IntechOpen, , 2023
ISBN	1-80356-318-4
Descrizione fisica	1 online resource (124 pages)
Disciplina	530.41072
Soggetti	Condensed matter physics (liquid state & solid state physics) Diamonds - Industrial applications
Lingua di pubblicazio	ne Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Diamond as a Precision Cutting Tool 2. Applications of Polycrystalline Diamond (PCD) Materials in Oil and Gas Industry 3. Nanodiamonds and Its Applications 4. Surface Analysis of Graphene and Graphite 5. Growth of Diamond Thin Film and Creation of NV Centers 6. Ab Initio Study of the Electronic and Energy Properties of Diamond Carbon.
Sommario/riassunto	This book focuses on the latest developments and applications of diamond materials. It describes and discusses different types of diamond materials, including polycrystalline diamond, diamond thin films, graphite, graphene, and nanodiamond. The book also discusses diamond cutting and drilling tools, as well as presents breakthrough technologies for physicists, materials scientists, and engineers.