

1. Record Nr.	UNICASLO10737608
Autore	Pinder, Wilhelm
Titolo	Der Bamberger Dom in 45 Bildern / mit einleitendem text von Wilhelm Pinder
Pubbl/distr/stampa	Konigstein im Taunus ; Leipzig, : Eiserne Hammer, [19..]
Descrizione fisica	48 p. : ill. ; 21 cm.
Collana	Der Eiserne Hammer
Disciplina	726.50943
Soggetti	Bamberg - Duomo - Guide
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910437808203321
Autore	Chen Yiqing
Titolo	Polishing of diamond materials : mechanisms, modeling and implementation // Yiqing Chen, Liangchi Zhang
Pubbl/distr/stampa	London ; ; New York, : Springer, c2013
ISBN	1-84996-408-4
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (174 p.)
Collana	Engineering Materials and Processes Engineering materials and processes
Altri autori (Persone)	ZhangL. C (Liangchi)
Disciplina	553.82
Soggetti	Diamond turning Diamond thin films
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Understanding of Material Removal Mechanisms -- Mechanical Polishing -- Chemo-mechanical Polishing -- Thermo-chemical Polishing -- High Energy Beam Polishing -- Electric Discharge

Machining (EDM) Polishing -- Dynamic Friction Polishing --
Comparison of Various Polishing Techniques.

Sommario/riassunto

Diamond has a unique combination of properties, such as the highest hardness and thermal conductivity among any known material, high electrical resistivity, a large optical band gap and a high transmission, good resistance to chemical erosion, low adhesion and friction, and extremely low thermal expansion coefficient. As such, diamond has been a desirable material in a wide range of applications in mechanical, chemical, optical, thermal and electrical engineering. In many of the cases, the surface of a diamond component or element must have a superior finish, often down to a surface roughness of nanometers. Nevertheless, due to its extreme hardness and chemical inertness, the polishing of diamond and its composites has been a sophisticated process. Polishing of Diamond Materials will provide a state-of-the-art analysis, both theoretically and experimentally, of the most commonly used polishing techniques for mono/poly-crystalline diamond and chemical vapour deposition (CVD) diamond films, including mechanical, chemo-mechanical, thermo-chemical, high energy beam, dynamic friction and other polishing techniques. The in-depth discussions will be on the polishing mechanisms, possible modelling, material removal rate and the quality control of these techniques. A comparison of their advantages and drawbacks will be carried out to provide the reader with a useful guideline for the selection and implementation of these polishing techniques. Polishing of Diamond Materials will be of interest to researchers and engineers in hard materials and precision manufacturing, industry diamond suppliers, diamond jewellery suppliers and postgraduate students in the area of precision manufacturing.
