

1. Record Nr.	UNISALENT0991003242779707536
Autore	Whitehouse, David J.
Titolo	Surfaces and their measurement [e-book] / David Whitehouse
Pubbl/distr/stampa	London : HPS, 2002
ISBN	9781903996010 1903996015
Descrizione fisica	xi, 395 p. : ill. ; 25 cm
Disciplina	620.44
Soggetti	Surfaces (Technology) - Measurement Electronic books.
Lingua di pubblicazione	Inglese
Formato	Risorsa elettronica
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index
Nota di contenuto	1. What is surface metrology? 2. Measurement of surfaces. 3. Profile parameter characterisation. 4. Surfaces in manufacture. 5. Function and surface texture. 6. Surface finish instrumentation. 7. Stylus instruments. 8. Optical methods. 9. Scanning microscopes. 10. Errors of form. 11. Roundness and related subjects. 12. Cylindricity, sphericity etc. 13. Instrument design for minimum error. 14. Calibration of instruments. 15. Sampling, numerical analysis, display. Glossary.
Sommario/riassunto	The importance of surface metrology has long been acknowledged in manufacturing and mechanical engineering, but has now gained growing recognition in an expanding number of new applications in fields such as semiconductors, electronics and optics. Metrology is the scientific study of measurement, and surface metrology is the study of the measurement of rough surfaces. In this book, Professor David Whitehouse, an internationally acknowledged subject expert, covers the wide range of theory and practice, including the use of new methods of instrumentation. Written by one of the world's leading metrologists Covers electronics and optics applications as well as mechanical Written for mechanical and manufacturing engineers, tribologists and precision engineers in industry and academia