

Handbook of Surface Metrology

By David J. Whitehouse

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Written by the leading authority in the subject, Handbook of Surface Metrology covers every conceivable aspect of measuring and characterizing a surface. Focusing both on theory and practice, the book provides useful guidelines for the design of precision instruments and presents data on the functional importance of surfaces. It also clearly explains the essential theory relevant to surface metrology. The book defines most terms and parameters according to national and international standards. Many examples and illustrations are drawn from the esteemed author's large fund of groundbreaking research work. This unparalleled, all-encompassing "metrology bible" is beneficial for engineering postgraduate students and researchers involved in tribology, instrumentation, data processing, and metrology.

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Editorial Review

Review
"Given its importance to modern engineering, an authoritative and comprehensive guide to surface metrology has been long overdue: this book is well worth the wait. It will provide a central and essential reference for many years to come. ... This is an immense and rich mine of information, and both the scope and the inadequacies of current theories are fully explored." M A Player (Aberdeen University), Measurement Science and Technology ..." no laboratory where surface metrology is an issue can afford to be without a copy. ... The section on characterization and signal processing is the major portion of the book, and is likely to remain the definitive account of the topic for some time." Proceedings of the Institution of Mechanical Engineers "The book is clearly written, well illustrated and comprehensive in its coverage. ... a very important addition to the engineering literature written by possibly the best qualified person in this country." Industrial Lubrication and Technology "Based on the personal knowledge and experience of the author who is a leading authority on the subject, this well presented and comprehensive reference work covers both theory and practice. ... The book contains a great deal of data, a useful glossary and is exceptionally well referenced." Aslib Book Guide "All you need to know about this subject is covered in depth: from the essential theory of surface metrology, the relevant national and international standards, to the design of precision instruments, and processing of data. ... There is no doubt that this reference work will be found essential for engineers involved in any aspect of development and production engineering concerned with metrology, tribology, instrumentation and associated data processing." Vacuum "It provides, for the first time I believe, a comprehensive analysis of modern techniques and instrumentation for surface metrology, including a description of the historical background to this important branch of engineering, in which the author himself played a major role. ... all this and much more has been described in an easily readable manner with plenty of sensible diagrams and a wealth of useful references." Professor Jack Dinsdale, NCR Industrial Professor, University of Dundee, Scotland its importance to modern engineering, an authoritative and comprehensive guide to surface metrology has been long overdue: this book is well worth the wait. It will provide a central and essential reference for many years to come. ... This is an immense and rich mine of information, and both the scope and the inadequacies of current theories are fully explored." M A Player (Aberdeen University), Measurement Science and Technology ..." no laboratory where surface metrology is an issue can afford to be without a copy. ... The section on characterization and signal processing is the major portion of the book, and is likely to remain the definitive account of the topic for some time." Proceedings of the Institution of Mechanical Engineers "The book is clearly written, well illustrated and comprehensive in its coverage. ... a very important addition to the engineering literature written by possibly the best qualified person in this country." Industrial Lubrication and Technology "Based on the personal knowledge and experience of the author who is a leading authority on the subject, this well presented and comprehensive reference workcovers both theory and practice. ... The book contains a great deal of data, a useful glossary and is exceptionally well referenced." Aslib Book Guide "All you need to know about this subject is covered in depth: from the essential theory of surface metrology, the relevant national and international standards, to the design of precision instruments, and processing of data. ... There is no doubt that this reference work will be found essential for engineers involved in any aspect of development and production engineering concerned with metrology, tribology, instrumentation and associated data processing." Vacuum "It provides, for the first time I believe, a comprehensive analysis of modern techniques and instrumentation for surface metrology, including a description of the historical background to this important branch of engineering, in which the author himself played a major role. ... all this and much more has been described in an easily readable manner with plenty of sensible diagrams and a wealth of useful references." Professor Jack Dinsdale, NCR Industrial Professor, University of Dundee, Scotland

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