

MATERIALS METROLOGY AND STANDARDS FOR STRUCTURAL PERFORMANCE

EDITED BY

**B.F. Dyson, M.S. Loveday
and M.G. Gee**



CHAPMAN & HALL

Materials Metrology And Standards For Structural Performance

**United States. National Bureau of
Standards**



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Materials Metrology and Standards for Structural Performance B. F. Dyson, S. Loveday, M. G. Gee, 1994-10-31

Materials Metrology and Standards for Structural Performance B.F. Dyson, S. Loveday, Mark Gee, 1995 Materials metrology is the measurement science used for determining materials property data An essential element is the symbiosis between the understanding of materials behaviour and the development of suitable measurement techniques which through the provision of standards enable design engineers and plant operators to acquire materials data of appropriate precision This book is concerned only with those aspects of materials metrology and standards that relate to the design and performance in service of structures and consumer products It does not consider their important role in the processing of materials The editors are grateful for the commitment and patience of the experts who contributed the various chapters In addition help from staff in the Division of Materials Metrology National Physical Laboratory in assisting with the task of refereeing the chapters is gratefully acknowledged The production of this book was carried out as part of the Materials Measurement Programme of underpinning research financed by the United Kingdom Department of Trade and Industry Brian F Dyson Malcolm S Loveday Mark G Gee Division of Materials Metrology National Physical Laboratory Teddington TW11 0LW UK CHAPTER 1 Materials metrology and standards an introduction B F Dyson M S Loveday and M G Gee 1 1 MATERIALS ASPECTS OF STRUCTURAL DESIGN Knowledge concerning the behaviour of materials has always been vital for the success of manufactured products but never more so than at the present time

Aspects of Materials Metrology and Standards for Structural Performance B. F. Dyson, M. S. Loveday, 1993-09-01

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National Bureau of Standards Staff on Engineering Standards Committees United States. National Bureau of Standards.
Office of Engineering and Information Processing Standards,1975 **Publications of the National Bureau of Standards**
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