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the first volume of this six volume compendium contains guidelines for determining the properties of polymer matrix composite material systems and their constituents as well as the properties of generic structural elements including test planning test matrices sampling conditioning test procedure selection data reporting data reduction statistical analysis and other related topics special attention is given to the statistical treatment and analysis of data volume 1 contains guidelines for general development of material characterization data as well as specific requirements for publication of material data in cmh 17 the primary purpose of this volume of the handbook is to document industry best practices for engineering methodologies related to testing data reduction and reporting of property data for current and emerging composite materials it is used by engineers worldwide in designing and fabricating products made from composite materials the composite materials handbook referred to by industry groups as cmh 17 is a six volume engineering reference tool that contains thousands of records of the latest test data for polymer matrix metal matrix ceramic matrix and structural sandwich composites cmh 17 provides information and guidance necessary to design analyze fabricate certify and support end items using composite materials it includes properties of composite materials that meet specific data requirements as well as guidelines for design analysis material selection manufacturing quality control and repair

the concise encyclopedia of the structure of materials draws its content from the award winning encyclopedia of materials science

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