

Composites series organisation:

preface

amendment record

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COMPOSITES SERIES ORGANISATION

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COMPOSITES SERIES ORGANISATION

1. PREFACE TO COMPOSITES SERIES

The design engineer who is concerned with fibre-reinforced composites structures used in the aerospace industry faces an ever-increasing demand for products with a performance that must be substantiated under stringent conditions of cost and environment. Assuming the basic skills of the designer, no other single factor can contribute more to the economic preparation of a satisfactory, competitive design than having to hand good reliable design methods and data.

Analytical methods concerning composites structures are widely scattered and, when located, are of variable quality and relevance to industrial applications. The task of collecting and evaluating relevant methodologies available on a particular aspect of composites structures is time consuming and therefore expensive. Even if such a task is performed it is often found that the customer will wish to view the design, not against some locally derived method, but against what can be demonstrated to be the best method that can be ascertained and that are vouched for by a significant cross-section of the engineering and scientific community concerned with both the derivation and application of analyses of composites structures. Accordingly, the Composites Series has been prepared to meet design requirements with regard to composites structures for both the designer and his customer and, by serving the needs of many, accomplishes the task at much lower cost and with a higher reliability than could the individual.

A qualified staff, with the assistance of many individuals and establishments throughout the world in research, industry and academia, collect and evaluate the existing methodologies. The staff discard those that are irrelevant or unreliable, correlating and distilling those that remain into an authoritative working tool for engineering application. Throughout, their work is guided and monitored by an expert group and *ad hoc* working parties. This series on Composites is prepared under the guidance of the Aerospace Structures and Vibration and Acoustic Fatigue Committees. The Structures Committee first met in 1940 and now has the following present constitution:

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* Corresponding Member.