

Preface

In the summer of 2014, and at the WCCM in Barcelona, we tried to capture the current state of the art in the “Design and Analysis of Reinforced Fiber Composites”. We were hoping to draw together a set of authors who would guide practitioners as well as researchers toward an integrated view of the subject. The international response to our call for papers exceeded our wildest expectations by addressing the important questions that we wanted to learn about and that was not widely discussed in the literature. Thus, we had papers concerned with the causes of delamination during buckling, manufacturing with natural fibers, the design of composite Pressure Vessels, analysis of large strain fiber and matrix behavior in tires, Macro Models for efficient analysis of Fracture, and application of SPH methods combined with MRI in model preparation, respectively.

The discussions to the presentations showed a large degree of interest. We wish that we could have collected the discussions and included it as an appendix to this volume. Alas my secretarial skills were not up to the task. We are indebted to our colleagues who kindly agreed to contribute to this Collection and who have modified their papers to reflect the points raised in the discussions.

We are indebted to Ms Silvia Schilgerius and Ms Kay Stoll, both of Springer, for originally suggesting this Collection and invaluable assistance throughout the publication process.

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<http://www.springer.com/978-3-319-20006-4>

Design and Analysis of Reinforced Fiber Composites
Marcal, P.V.; Yamagata, N. (Eds.)
2016, VII, 99 p. 62 illus., 51 illus. in color., Hardcover
ISBN: 978-3-319-20006-4