

# Preface

High-level applications of composite materials at affordable development and manufacturing costs create significant demand for scientific knowledge and computational tools for composite manufacturing. The mechanical behaviour of composite parts in service is dominated by fiber orientation and density, which in turn are determined by the forming process. Hence, predicting in-service performance requires a full understanding of, and preferably a prediction of, the complex material behaviour during manufacturing.

Experimental and numerical standards are discussed and established in the context of the composite forming process. The presented research results are dedicated to material characterisation, constitutive laws, contact and friction, forming simulations, multiscale analyses, textile forming, thermoforming, resin injection, compression moulding, fiber suspensions, natural fibers, additive manufacturing of composites, etc.

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