

1. Record Nr.	UNINA9910805669303321
Autore	Hohberg Martin
Titolo	Experimental investigation and process simulation of the compression molding process of Sheet Molding Compound (SMC) with local reinforcements // Martin Hohberg
Pubbl/distr/stampa	Karlsruhe : , : KIT Scientific Publishing, , 2022
Descrizione fisica	1 online resource (216 pages)
Collana	Karlsruher Schriftenreihe Fahrzeugsystemtechnik
Disciplina	660
Soggetti	Reinforced plastics Computer-aided engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	In this book, a new three-dimensional approach for the process simulation of SMC is developed. This approach takes into account both, the core layer that is dominated by the extensional viscosity and the thin lubrication layer. In order to transfer the information from the process to the structure simulation, a CAE chain is further developed. In addition, a new rheological tool is developed to analyze flow behavior experimentally and to provide the required material parameters.