



Jun Xu, Yibing Li

Impact Behavior and Pedestrian Protection of Automotive Laminated Windshield

Theories, Experiments and Numerical Simulations

- Presents detailed tests, analytical and modeling methods for laminated glass
- Offers an in-depth analysis of the mechanical behavior of laminated glass
- Provides step-by-step finite element analysis methods
- Includes handy quick-reference figures and tables to help automotive engineers involved in safety design for laminated windshields

1st ed. 2019, X, 272 p. 217 illus., 181 illus. in color.

Printed book

Hardcover

149,99 € | £129.99 | \$179.99

^[1]160,49 € (D) | 164,99 € (A) | CHF 177,00

eBook

118,99 € | £103.50 | \$139.00

^[2]118,99 € (D) | 118,99 € (A) | CHF 141,50

Available from your library or springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

This book addresses one of the most important components for pedestrian safety in vehicles – laminated windshields. It includes detailed real-world material characterization results for laminated glass and testing methodologies, constitutive models, and step-by-step numerical simulation modeling and simulation methods. As such, the book provides readers a thorough understanding of the mechanical behaviors of laminated glass and windshields. It also presents fundamental test data, analysis methodologies and essential insights into laminated glass safety design and mechanical behavior prediction. The book addresses the needs of researchers, engineers and postgraduate students in the fields of automotive engineering, mechanical engineering and related areas.

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

