



Automotive Accident Reconstruction: Practices and Principles (Ground Vehicle Engineering)

Donald E. Struble Ph.D.



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Automotive Accident Reconstruction: Practices and Principles introduces techniques for gathering information and interpreting evidence, and presents computer-based tools for analyzing crashes. This book provides theory, information and data sources, techniques of investigation, an interpretation of physical evidence, and practical tips for beginners. It also works as an ongoing reference for experienced reconstructionists. The book emphasizes three things: the theoretical foundation, the presentation of data sources, and the computer programs and spread sheets used to apply both theory and collected data in the reconstruction of actual crashes.

It discusses the specific requirements of reconstructing rollover crashes, offers background in structural mechanics, and describes how structural mechanics and impact mechanics are applied to automobiles that crash. The text explores the treatment of crush energy when vehicles collide with each other and with fixed objects. It delves into various classes of crashes, and simulation models. The framework of the book starts backward in time, beginning with the analysis of post-crash vehicle motions that occurred without driver control.

- Applies time-reverse methods, in a detailed and rigorous way, to vehicle run-out trajectories, utilizing the available physical evidence
- Walks the reader through a collection of digital crash test data from public sources, with detailed instructions on how to process and filter the information
- Shows the reader how to build spread sheets detailing calculations involving crush energy and vehicle post-crash trajectory characteristics
- Contains a comprehensive treatment of crush energy

This text can also serve as a resource for industry professionals, particularly with regard to the underlying physics.



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