



# Accident Reconstruction

**Donald E. Struble**



## **Accident Reconstruction:**

**Automotive Accident Reconstruction** Donald E. Struble, John D. Struble, 2020-01-30 This fully updated edition presents practices and principles applicable for the reconstruction of automobile and commercial truck crashes Like the First Edition it starts at the very beginning with fundamental principles information sources and data gathering and inspection techniques for accident scenes and vehicles It goes on to show how to analyze photographs and crash test data The book presents tire fundamentals and shows how to use them in spreadsheet based reverse trajectory analysis Such methods are also applied to reconstructing rollover crashes Impacts with narrow fixed objects are discussed Impact mechanics structural dynamics and conservation based reconstruction methods are presented The book contains a comprehensive treatment of crush energy and how to develop structural stiffness properties from crash test data Computer simulations are reviewed and discussed Extensively revised this edition contains new material on side pole impacts It has entirely new chapters devoted to low speed impacts downloading electronic data from vehicles deriving structural stiffness in side impacts and incorporating electronic data into accident reconstructions

**Motorcycle Accident Reconstruction** Nathan Rose, 2022-01-07 Accident reconstruction utilizes principles of physics and empirical data to analyze the physical electronic video audio and testimonial evidence from a crash to determine how and why the crash occurred how the crash could have been avoided or to determine whose description of the crash is most accurate This process draws together aspects of mathematics physics engineering materials science human factors and psychology and combines analytical models with empirical test data Different types of crashes produce different types of evidence and call for different analysis methods Still the basic philosophical approach of the reconstructionist is the same from crash type to crash type as are the physical principles that are brought to bear on the analysis This book covers a basic approach to accident reconstruction including the underlying physical principles that are used then details how this approach and the principles are applied when reconstructing motorcycle crashes This second edition of Motorcycle Accident Reconstruction presents a thorough systematic and scientific overview of the available methods for reconstructing motorcycle crashes This new edition contains Additional theoretical models examples case studies and test data An updated bibliography incorporating the newest studies in the field Expanded coverage of the braking capabilities of motorcyclists Updated refined and expanded discussion of the decelerations of motorcycles sliding on the ground A thoroughly rewritten and expanded discussion of motorcycle impacts with passenger vehicles Updated coefficients of restitution for collisions between motorcycles and cars A new and expanded discussion of using passenger car EDR data in motorcycle accident reconstruction A new section covering recently published research on post collision frozen speedometer readings on motorcycles A new section on motorcycle interactions with potholes roadway deterioration and debris and expanded coverage of motorcycle falls This second edition of Motorcycle Accident Reconstruction is a must have title for accident reconstructionists forensic engineers and all interested in understanding why and how motorcycle crashes occur

*Automotive Accident Reconstruction* Ph.D., Donald E. Struble, 2013-09-24 *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 beginner [Mathematical Methods for Accident Reconstruction](#) Harold Franck, Darren Franck, 2025-09-17 This book demonstrates the application of mathematics to modeling accident reconstructions involving a range of moving vehicles including automobiles small and large trucks bicycles motorcycles all terrain vehicles and construction equipment such as hoists and cranes The book is anchored on the basic principles of physics that may be applied to any of the above named vehicles or equipment Topics covered include the foundations of measurement the various energy methods used in reconstruction momentum methods vehicle specifications failure analysis geometrical characteristics of highways and softer scientific issues such as visibility perception and reaction The authors examine the fundamental characteristics of different vehicles discuss the retrieval of data from crash data recorders and review low speed impacts with an analysis of staged collisions Finally it details established standards and protocols for accident reconstruction for use in both investigations and in the courtroom In addition this new edition covers nonvehicle related topics like slip and fall analysis fall protection and engine and mechanical failure as well as federal rules and laws that have been established for the work environment Many reconstructions of incidents require extensive analysis that may require a variety of methods in order to properly model the incident Exploring a broad range of accident scenarios the breadth and depth of this book s coverage makes *Mathematical Methods for Accident Reconstruction Second Edition* a critical reference for engineers and scientists who perform vehicular accident reconstructions **Bicycle Accident Reconstruction for the Forensic Engineer** James M. Green Pe, James M. Green, Janet Green Rn, 2001 *Bicycle Accident Reconstruction for the Forensic Engineer* describes the methodology for reconstructing bicycle and pedestrian accidents Of particular interest is analysis of light signation and conspicuity on the reconstruction of all types of accidents *Rollover Accident Reconstruction* Nathan A Rose, Gray Beauchamp, Alan F Asay, 2018-08-07 According to the National Highway Traffic Safety Administration of the nearly 9 1 million passenger car SUV pickup and van crashes in 2010 only 2 1% involved a rollover However rollovers accounted for nearly 35% of all deaths from passenger vehicle crashes In 2010 alone more than 7 600 people died in rollover crashes Rollover accidents continue to be a leading contributor of vehicle deaths While this continues to be true it is pertinent to understand the entire crash process Each stage of the accident provides valuable insight into the application of reconstruction methodologies *Rollover Accident Reconstruction* focuses on tripped single vehicle rollover crashes that terminate without striking a fixed object Topics featured in this book include Analysis methods through various accident phases including advanced simulation Vehicle event data recorder usage Occupant ejection during rollover crash The goal of this title is to break down the various phases of a rollover crash to analyze each stage for use in the

reconstruction process to the greater understanding of crash analysts consultants and safety engineers alike

**Pedestrian Accident Reconstruction** Nathan A. Rose, Neal Carter, 2025-10-30 As technology advances so too must the methods we use to investigate and understand pedestrian collisions Pedestrian Accident Reconstruction provides a much needed update to the field one that reflects the dramatic rise in digital evidence and the growing role of simulation in modern reconstructions While earlier texts laid the foundation for understanding pedestrian impacts they were written before the widespread use of video footage onboard vehicle sensors and powerful simulation software This book addresses that shift It introduces updated methods that incorporate event data recorders surveillance video dash cams and advanced simulation tools like the PC Crash multibody pedestrian model These technologies allow for more precise repeatable and illustrative reconstructions than ever before The book highlights when and how simulation can enhance an investigation especially in complex scenarios such as roof vaults sideswipes or collisions that defy conventional equations Though PC Crash is the primary tool used throughout the insights and principles are broadly applicable across simulation platforms Written by experienced practitioners this is not just a guide to software it is a thoughtful practical resource for applying modern tools to real world cases Whether you are new to the field or looking to refine your practice this book offers an essential perspective for today's reconstruction professional ISBN 9781468609707 9781468609714 9781468609721 DOI <https://doi.org/10.4271/9781468609714>

**Mathematical Methods for Accident Reconstruction** Harold Franck, Darren Franck, 2009-09-15 Over the past 25 years Harold and Darren Franck have investigated hundreds of accidents involving vehicles of almost every shape size and type imaginable In *Mathematical Methods for Accident Reconstruction A Forensic Engineering Perspective* these seasoned experts demonstrate the application of mathematics to modeling accident reconstructions

**Motorcycle Accident Reconstruction** Nathan A Rose, William TC Neale, 2018-12-20 In a recent National Highway Traffic Safety Administration NHTSA report about one out of every 7 fatalities on the road involved a motorcycle It is clear that motorcyclists are more vulnerable and much more likely to be injured or killed in a crash than are passengers in a car accident *Motorcycle Accident Reconstruction* purposefully pulls together as much of the relevant accident reconstruction literature and science as possible to present definitive literature that meets the needs of the crash reconstruction industry The reader will learn to analyze physical evidence understand what it means and how to incorporate math and physics into an investigation Topics featured in this book include Case studies utilizing event data recorder data Photogrammetry analysis Determining motorcycle speed at the time of an accident The book provides a unique roadmap for the motorcycle accident reconstructionist user It is written by two specialists in this field who provide analyses of physical factors that affect motorcycle visibility motorcycle usage at night and human factors in motorcycle crashes to the greater understanding of crash analysts consultants and safety engineers alike

*Automotive Accident Reconstruction* Donald E. Struble, 2017-03-29 *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

Vehicle Accident Analysis and Reconstruction Methods Raymond M Brach,Matthew Brach,2011-04-12 Designed for the experienced practitioner this new book aims to help reconstruction specialists with problems they may encounter in everyday analysis The authors demonstrate how to take the physics behind accidents out of the idealized world and into practical situations Real world examples are used to illustrate the methods clarify important concepts and provide practical applications to those working in the field Thoroughly revised this new edition builds on the original exploration of accident analysis reconstruction and vehicle design Enhanced with new material and improved chapters on key topics an expanded glossary of automotive terms and a bibliography at the end of the book providing further reading suggestions make this an essential resource reference for engineers involved in litigation forensic investigation automotive safety and crash reconstruction Police officers attorneys and insurance professionals will also find the book to be a definitive resource in reconstructing accident scenes New Topics Event data recorders EDRs Frictional drag coefficients for sliding tires Railroad grade crossing collisions New practical applications of mathematical methods Enhanced Features Expanded glossary of automotive terms Bibliography with further reading suggestions Improved chapters on tire forces rollover accidents crush energy pedestrian collisions vehicle dynamic simulation

*Vehicle Accident Analysis and Reconstruction Methods* Matthew Brach,James Mason,Raymond M Brach,2022-01-07 In this third edition of Vehicle Accident Analysis later chapters present applications of the methods and include example reconstructions As a result Vehicle Accident Analysis Reconstruction Methods remains the definitive resource in accident reconstruction

**Scientific Automobile Accident Reconstruction**  
George W. Lacy,Martin E. Barzelay,1989

**FORENSIC ENGINEERING RECONSTRUCTION OF ACCIDENTS** John

Fiske Brown, Kenneth S. Obenski, Thomas R. Osborn, 2003-01-01 This book is not an advanced engineering text Rather it is a practical presentation with traffic accident reconstruction principles presented in a simple understandable manner so that the reader will easily retain these important concepts The engineering principles involved are introduced at the elementary level and in many cases equations used in freshman physics are derived The authors believe that the derivations are presented in the simplest manner possible so that the reader will retain this material The book is the result of an effort to compile over a period of years useful forensic engineering data information and analytical techniques over and above those taught to non engineers Many of the mathematical treatments are original In general the book reflects the authors combined over forty years experience of forensic investigations involving thousands of cases It offers something for everyone interested in forensic engineering In the new second edition Chapters 3 to 5 have been substantially modified and the remainder of the text has been edited to bring its various parts up to date The experienced investigator will find a wealth of new ideas and relationships to fill in gaps in his knowledge and reinforce his analytical approaches Those starting new in this work will have an advantage on their competition after studying this material For the non technical reader most of the book is eminently readable To an investigator attorney or insurance adjuster with only a nodding acquaintance with freshman physics the book should be totally comprehensible *Motor Vehicle Accident Reconstruction and Cause Analysis* Rudolf Limpert, 1978

**Aircraft Accident Reconstruction and Litigation** Barnes Warnock McCormick (Jr.), M. P. Papadakis, 1998 This book provides a sound introduction to the considerations that must go into aircraft accident causation analysis and litigation Written for the aeronautical engineer reconstruction expert or legal professional Aircraft Accident Reconstruction and Litigation translates complex wreckage reconstruction analysis into useful and credible information for application in the search for causes and legal aspects of aircraft accidents This book also includes the most comprehensive listing of aviation state law and cases ever published plus a worldwide list of aviation experts and organizations as well as data resources and excerpts from the government manual New Mexico State Police, 1933-2000, 2000 Vehicular Accident Investigation and Reconstruction Donald J Van Kirk, 2000-09-19 Accident investigation reconstruction is more than just a job or even a profession it is more art than science and requires a dedication greater than a commitment of time It takes constant reading study and analysis of accident information and case reconstructions to keep improving your performance both in the field and in the courtroom **Accident Reconstruction**, 1992 Present 24 papers from the Accident Reconstruction session of the March 1993 SAE Congress Subjects include basic data collection advanced analysis techniques such as a computer graphics interface and three dimensional animation of accidents using techniques such as stereoscopic animation and comp Crash Reconstruction Research Michael S Varat, 2008-03-17 The science of crash reconstruction enables engineers to determine the most probable scenario for how and why traffic collisions occur Ongoing research has continually enhanced crash reconstructionists knowledge of the application of physical laws in this field Crash Reconstruction Research 20 Years of

Progress 1988 2007 features 47 papers that have presented significant steps forward focusing on the following areas within the field of crash reconstruction that have experienced major advances Planar Impact Mechanics Stiffness Modeling Crash Pulse Analysis Structural Restitution Lateral Deformation and Override Underride BEV v Delta V Rear and Side Impacts Pole Impacts Uncertainty Analysis Pedestrian Crashes Braking Performance

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