



Blood Dynamics

By Anita Wonder BS MA MT - ASCP

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Today's resources on bloodstain analysis are still based on methods that were derived in the 1920s. Although medical and clinical research have provided a growing body of information on blood composition and behavior, this information has been ignored in favor of historical bloodstain analysis methods-until now. With 25 years of experience in the field, author Anita Wonder shows how to use these new methods for interpreting bloodstains, including non-Newtonian fluid behavior (a process that does not conform to Sir Isaac Newton's laws of motion) and three-dimensional dispersion modeling.

Blood Dynamics focuses on how to accurately identify eight bloodstain pattern types and their permutations. It covers every aspect of bloodstain analysis, and shows how some standard practices of reconstruction are not only unnecessary for identification of blood dynamics, but can even be misleading.

This book presents completely new scientific evaluations of blood dynamics and will fundamentally change the way in which bloodstains are interpreted. As such, it will be required reading for anyone who deals with blood evidence at the crime scene, in the lab, or in the courtroom.

- * Presents groundbreaking new methods for interpreting bloodstains, including non-Newtonian fluid behaviour and three-dimensional dispersion modelling
- * Covers every aspect of bloodstain analysis
- * Focuses on how to accurately identify eight bloodstain pattern types and their permutations
- * Author, Anita Wonder has 25 years of experience in the field of blood dynamics

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Editorial Review

Review

"With its many colour photos, excellent typesetting and quality printing, this is indeed an elegant book...The discussion of the 'non-Newtonian, viscoelastic" properties of blood due to red blood cells (hematocrit) sets this book apart from similar publications...The rich variety of topics ...will attest to the many aspects of bloodstain evidence that are covered in **Blood Dynamics**. Each one is skillfully described with Ms. Wonder's unique style and perspective...recommended as an additional resource for any bloodstain pattern analyst."

@source—Alfred L. Carter, CANADIAN SOCIETY OF FORENSIC SCIENCE JOURNAL

"It is a delightfully written book, a joy to read and of course will be a favourite in my collection."

-Gyan Fernando, for ANIL AGGRAWAL'S INTERNET JOURNAL OF FORENSIC MEDICINE AND TOXICOLOGY (2002)

From the Back Cover

The analysis of bloodstain patterns is commonplace in violent crime investigations. Bloodstain patterns can provide a great deal of information to the investigator and crime scene reconstructionist, yet confusion, ambiguity and a certain amount of controversy prevent full acceptance by the scientific and legal communities.

All present "blood spatter" data comes from data compiled in the 1920s, before non-Newtonian fluid behaviour was described. Medical and clinical research, with more adequate funding than forensics research, is providing a growing body of information on blood composition and behaviour. Those applying bloodstain pattern analysis - until now - have ignored this reference material in favour of historical studies.

Paul Kirk, as early as 1951, promoted bloodstain pattern interpretation as a scientific discipline. Since his death in 1970, use of bloodstain pattern interpretation has increased markedly, yet the technical basis on which this is based has changed little. Information unknown during Dr Kirk's studies has yet to be incorporated into a basis for understanding blood distribution behavior. This book will do that – with the benefit of the author's 25 years of research into forensic bloodstain interpretation.

This book will fundamentally change the way in which bloodstains are interpreted – and will be required reading by:

- Law enforcement
- Crime scene technicians
- Accident investigators
- Forensic scientists
- Lawyers and judges
- Crime writers and the media

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The book incorporates the latest findings on fluid dynamics to fundamentally change the way bloodstains are interpreted.

Users Review

From reader reviews:

Gary McIntosh:

Reading a publication can be one of a lot of action that everyone in the world adores. Do you like reading book and so. There are a lot of reasons why people love it. First reading a book will give you a lot of new info. When you read a guide you will get new information simply because book is one of numerous ways to share the information or perhaps their idea. Second, examining a book will make an individual more imaginative. When you studying a book especially fictional book the author will bring that you imagine the story how the characters do it anything. Third, you are able to share your knowledge to other folks. When you read this Blood Dynamics, you can tell your family, friends and soon about yours reserve. Your knowledge can inspire others, make them reading a book.

Elizabeth Fischer:

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Willie Alford:

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