



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:

George Green:

This Blood Dynamics are generally reliable for you who want to certainly be a successful person, why. The reason of this Blood Dynamics can be one of many great books you must have will be giving you more than just simple studying food but feed you with information that maybe will shock your previous knowledge. This book is definitely handy, you can bring it almost everywhere and whenever your conditions in e-book and printed types. Beside that this Blood Dynamics giving you an enormous of experience including rich vocabulary, giving you test of critical thinking that we know it useful in your day activity. So , let's have it and luxuriate in reading.

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Marie Miles:

A lot of people always spent all their free time to vacation or even go to the outside with them family members or their friend. Are you aware? Many a lot of people spent they will free time just watching TV, or even playing video games all day long. In order to try to find a new activity this is look different you can read a book. It is really fun to suit your needs. If you enjoy the book which you read you can spent all day long to reading a reserve. The book Blood Dynamics it is quite good to read. There are a lot of folks that recommended this book. These folks were enjoying reading this book. When you did not have enough space to deliver this book you can buy typically the e-book. You can m0ore simply to read this book from your smart phone. The price is not very costly but this book possesses high quality.

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