

molecules of murder criminal molecules and classic cases

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Delve into the fascinating intersection of science and crime, exploring how molecules provide crucial evidence in criminal investigations. This journey covers everything from understanding criminal molecules at a crime scene to revisiting the most iconic and classic cases that have shaped forensic science and true crime history.

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Molecules of Murder

Molecules of Murder is about infamous murderers and famous victims; about people like Harold Shipman, Alexander Litvinenko, Adelaide Bartlett, and Georgi Markov. Few books on poisons analyse these crimes from the viewpoint of the poison itself, doing so throws a new light on how the murders or attempted murders were carried out and ultimately how the perpetrators were uncovered and brought to justice. Part I includes molecules which occur naturally and were originally used by doctors before becoming notorious as murder weapons. Part II deals with unnatural molecules, mainly man-made, and they too have been dangerously misused in famous crimes. The book ends with the most famous poisoning case in recent years, that of Alexander Litvinenko and his death from polonium chloride. The first half of each chapter starts by looking at the target molecule itself, its discovery, its history, its chemistry, its use in medicine, its toxicology, and its effects on the human body. The second half then investigates a famous murder case and reveals the modus operandi of the poisoner and how some were caught, some are still at large, and some literally got away with murder. Molecules of Murder will explain how forensic chemists have developed cunning ways to detect minute traces of dangerous substances, and explain why some of these poisons, which appear so life-threatening, are now being researched as possible life-savers. Award winning science writer John Emsley has assembled another group of true crime and chemistry stories to rival those of his highly acclaimed Elements of Murder.

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The Elements of Murder

A fascinating account of the five most toxic elements describes the lethal chemical properties of arsenic, antimony, lead, mercury, and thallium, as well as their use in some of the most famous murder cases in history, with profiles of such deadly poisoners as Mary Ann Cotton, Michael Swango, and Saddam Hussein and a look at modern-day environmental catastrophes.

More Molecules of Murder

How can a plant as beautiful as the foxglove be so deadly and yet for more than a century be used to treat heart disease? The same is true of other naturally occurring molecules as will be revealed in this current book by award-winning author and chemist, John Emsley. More Molecules of Murder follows on from his highly-acclaimed earlier book Molecules of Murder, and again it deals with 14 potential poisons; seven of which are man-made and seven of which are natural. It investigates the crimes committed with them, not from the point of view of the murderers, their victims, or the detectives, but from the poison used. In so doing it throws new light on how these crimes were carried out and ultimately how the perpetrators were uncovered and brought to justice. Each chapter starts by looking at the target molecule itself, its discovery, its chemistry, its often-surprising use in medicine, its effects on the human body, and its toxicology. The rest of the chapter is devoted to murders and attempted murders in which it has been used. But, be reassured that murder by poison is not the threat it once was, thanks to laws which restrict access to such materials and to the skills of analytical chemists in detecting their presence in incredibly tiny amounts.

Criminal Poisoning

In this revised and expanded edition, leading forensic scientist John Trestrail offers a pioneering survey of all that is known about the use of poison as a weapon in murder. Topics range from the use of poisons in history and literature to convicting the poisoner in court, and include a review of the different types of poisons, techniques for crime scene investigation, and the critical essentials of the forensic autopsy. The author updates what is currently known about poisoners in general and their victims. The Appendix

has been updated to include the more commonly used poisons, as well as the use of antifreeze as a poison.

Molecules at an Exhibition

Emsley describes chemicals which affect every aspect of our daily lives, including anecdotes about their proper or improper uses.

Strengthening Forensic Science in the United States

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Vanity, Vitality, and Virility: The Science Behind the Products You Love to Buy

Vanity, Vitality, and Virility is a fascinating portrait gallery of chemicals involved in our everyday life, from Viagra and selenium to whispering asphalt, nappies, and chewing gum. While it will not advise you what to do if you want to improve your looks, your health, your peace of mind or your sex life, it explains the science behind many of the products that claim to be able to do just that. Lift the lid on the secrets behind products we use every day with renowned science communicator John Emsley, author of The Consumer's Good Chemical Guide, Molecules at an Exhibition, and Nature's Building Blocks.

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The Anarchist Cookbook

The Anarchist Cookbook will shock, it will disturb, it will provoke. It places in historical perspective an era when "Turn on, Burn down, Blow up" are revolutionary slogans of the day. Says the author "This book... is not written for the members of fringe political groups, such as the Weatherman, or The Minutemen. Those radical groups don't need this book. They already know everything that's in here. If the real people of America, the silent majority, are going to survive, they must educate themselves. That is the purpose of this book." In what the author considers a survival guide, there is explicit information on the uses and effects of drugs, ranging from pot to heroin to peanuts. There i detailed advice concerning electronics, sabotage, and surveillance, with data on everything from bugs to scramblers. There is a comprehensive chapter on natural, non-lethal, and lethal weapons, running the gamut from cattle prods to sub-machine guns to bows and arrows.

Poisons and Murder Set

How can a plant as beautiful as the foxglove be so deadly and yet for more than a century be used to treat heart disease? The same is true of other naturally occurring molecules as will be revealed in these three books which examine poisons, both natural and man-made, and the crimes committed with them, not from the point of view of the murderers, their victims, or the detectives, but from the poison

used. *Molecules of Murder: Criminal Molecules and Classic Cases*, *More Molecules of Murder* and *Poisons and Poisonings: Death by Stealth* throw new light on how these crimes were carried out, how the perpetrators were uncovered and brought to justice and information about how forensic analysis is conducted. Appealing to scientists and non-scientists alike, these enthralling books will entertain and educate and bring the reader up to date with how important chemical analysis is in crime detection.

Nature's Building Blocks

A readable, informative, fascinating entry on each one of the 100-odd chemical elements, arranged alphabetically from actinium to zirconium. Each entry comprises an explanation of where the element's name comes from, followed by Body element (the role it plays in living things), Element of history (how and when it was discovered), Economic element (what it is used for), Environmental element (where it occurs, how much), Chemical element (facts, figures and narrative), and Element of surprise (an amazing, little-known fact about it). A wonderful 'dipping into' source for the family reference shelf and for students.

Science And Human Behavior

The psychology classic—a detailed study of scientific theories of human nature and the possible ways in which human behavior can be predicted and controlled—from one of the most influential behaviorists of the twentieth century and the author of *Walden Two*. "This is an important book, exceptionally well written, and logically consistent with the basic premise of the unitary nature of science. Many students of society and culture would take violent issue with most of the things that Skinner has to say, but even those who disagree most will find this a stimulating book." —Samuel M. Strong, *The American Journal of Sociology* "This is a remarkable book—remarkable in that it presents a strong, consistent, and all but exhaustive case for a natural science of human behavior...It ought to be...valuable for those whose preferences lie with, as well as those whose preferences stand against, a behavioristic approach to human activity." —Harry Prosch, *Ethics*

Cracking Cases

AS SEEN ON ABC NEWS" 20/20, LARRY KING LIVE, ENTERTAINMENT TONIGHT, ON THE RECORD WITH GRETA VAN SUSTEREN, AND MORE True-crime buffs will snap this up. -Booklist Doubly appealing for murder-mystery lovers. It digs deeply into real-life killings, and it offers an expert's firsthand look at forensics. -Dallas Morning News Attention to storytelling reveals the characters behind the cases...essential reading. -Publishers Weekly Lee's skill at interpreting crime scenes shines on every page. His admonitions concerning the preserving of crime scene integrity should be included in every textbook description of investigative procedure. -American Scientist Merges travelogue with autopsy report...the scientific bits add a framework seldom found in true-crime books. ...while horror is [Lee's] stock in trade, he shares it with readers in a warmly personal way that keeps the shivers down while revealing the evil that men do. -ForeWord There's no one quite like Henry Lee. When others see random items and information, Dr. Lee sees patterns of evidence. He is our modern day Sherlock Holmes... -Alan M. Dershowitz, Professor of Law, Harvard Law School A "must read" from the world's greatest criminalist. Dr. Lee leads us on an investigative journey to justice in five sensational murder cases. -Johnnie L. Cochran Jr. Truly a legend in his own time, Dr. Henry C. Lee is considered by many to be the greatest forensic scientist in the world. He gained widespread public recognition through his testimony in the televised O. J. Simpson trial. Since that time he has helped with the Jon Benet Ramsey case and the investigations of mass murder in Croatia. This book will take the reader through the entire investigative process of five murder cases, with Dr. Lee as the tour guide. The cases include: the O. J. Simpson case, in which Dr. Lee's analysis of the blood evidence at the crime scene revealed that the Los Angeles Police Department had missed several blood drops on the back of Nicole Simpson, a footprint belonging to a second possible assailant, and the physical improbability of Mr. Simpson's climbing a fence to return to his home; the woodchipper murder, in which an Eastern Airlines pilot murdered his wife and then put her body through a woodchipper in an attempt to dispose of the remains; the Mathison murder, in which a veteran Hawaiian police sergeant claimed to have accidentally run over his wife after she fled the family van during a dispute; the Ed Sherman murder, in which a college English professor attempted to disguise the time of his wife's death by turning up the air conditioning unit in their house and then using the alibi that he was away from the home sailing on the day the crime allegedly took place; and the McArthur murder, in which a police sergeant shot and killed his wife, but then tried to make it appear that she had accidentally killed herself. In each case, Dr. Lee presents in scientific detail

how he investigated the murders, analyzed the evidence, and used techniques that played a critical role in bringing criminals to justice. He discusses how the criminalist examines blood spatter evidence and uses blood identification, DNA analysis, and other forensic technologies developed in the world's best laboratories. This is a fascinating insider's look by a world-renowned expert into the pursuit of justice in some of the most grisly criminal cases of recent times. Dr. Henry C. Lee (Branford, CT), chair and professor of forensic science at the University of New Haven and chief emeritus in the Department of Public Safety in Meriden, CT, is a lifetime distinguished member of the International Association of Identification and a distinguished fellow of the American Academy of Forensic Sciences. He is the author (with Jerry Labriola, MD) of *Famous Crimes Revisited*, *The Budapest Connection*, and *Dr. Henry Lee's Forensic Files*, and (with Thomas W. O'Neil) *Cracking Cases and Cracking More Cases*, among other works. Dr. Lee was formerly on Court TV's *Trace E*

Microbial Forensics

Microbial Forensics is a rapidly evolving scientific discipline. In the last decade, and particularly due to the anthrax letter attacks in the United States, microbial forensics has become more formalized and has played an increasingly greater role in crime investigations. This has brought renewed interest, development and application of new technologies, and new rules of forensic and policy engagement. It has many applications ranging from biodefense, criminal investigations, providing intelligence information, making society more secure, and helping protect precious resources, particularly human life. A combination of diverse areas is investigated, including the major disciplines of biology, microbiology, medicine, chemistry, physics, statistics, population genetics, and computer science. *Microbial Forensics, Second Edition* is fully revised and updated and serves as a complete reference of the discipline. It describes the advances, as well as the challenges and opportunities ahead, and will be integral in applying science to help solve future biocrimes. A collection of microbiology, virology, toxicology and mycology as it relates to forensics, in one reference New and expanded content to include statistical analysis of forensic data and legal admissibility and the standards of evidence, to name a few Includes research information and application of that research to crime scene analysis, which will allow practitioners to understand and apply the knowledge to their practice with ease

Forensic Chemistry Handbook

A concise, robust introduction to the various topics covered by the discipline of forensic chemistry The *Forensic Chemistry Handbook* focuses on topics in each of the major chemistry-related areas of forensic science. With chapter authors that span the forensic chemistry field, this book exposes readers to the state of the art on subjects such as serology (including blood, semen, and saliva), DNA/molecular biology, explosives and ballistics, toxicology, pharmacology, instrumental analysis, arson investigation, and various other types of chemical residue analysis. In addition, the *Forensic Chemistry Handbook*: Covers forensic chemistry in a clear, concise, and authoritative way Brings together in one volume the key topics in forensics where chemistry plays an important role, such as blood analysis, drug analysis, urine analysis, and DNA analysis Explains how to use analytical instruments to analyze crime scene evidence Contains numerous charts, illustrations, graphs, and tables to give quick access to pertinent information Media focus on high-profile trials like those of Scott Peterson or Kobe Bryant have peaked a growing interest in the fascinating subject of forensic chemistry. For those readers who want to understand the mechanisms of reactions used in laboratories to piece together crime scenes—and to fully grasp the chemistry behind it—this book is a must-have.

Psychic Self-Defense

Psychic Self-Defense Dion Fortune - "Psychic Self-Defense" is one of the best guides to detection and defence against psychic attack from one of the leading occult writers of the 20th century. After finding herself the subject of a powerful psychic attack in the 1930's, famed British occultist Dion Fortune wrote this detailed instruction manual on protecting oneself from paranormal attack. This classic psychic self-defence guide explains how to understand the signs of a psychic attack, vampirism, hauntings, and methods of defence. Everything you need to know about the methods, motives, and physical aspects of a psychic attack and how to overcome it is here, along with a look at the role psychic elements play in mental illness and how to recognise them.

The Poisoner's Handbook

Equal parts true crime, twentieth-century history, and science thriller, *The Poisoner's Handbook* is "a vicious, page-turning story that reads more like Raymond Chandler than Madame Curie." —The New York Observer "The Poisoner's Handbook breathes deadly life into the Roaring Twenties." —Financial Times "Reads like science fiction, complete with suspense, mystery and foolhardy guys in lab coats tipping test tubes of mysterious chemicals into their own mouths." —NPR: What We're Reading A fascinating Jazz Age tale of chemistry and detection, poison and murder, *The Poisoner's Handbook* is a page-turning account of a forgotten era. In early twentieth-century New York, poisons offered an easy path to the perfect crime. Science had no place in the Tammany Hall-controlled coroner's office, and corruption ran rampant. However, with the appointment of chief medical examiner Charles Norris in 1918, the poison game changed forever. Together with toxicologist Alexander Gettler, the duo set the justice system on fire with their trailblazing scientific detective work, triumphing over seemingly unbeatable odds to become the pioneers of forensic chemistry and the gatekeepers of justice. In 2014, PBS's *AMERICAN EXPERIENCE* released a film based on *The Poisoner's Handbook*.

Chemistry for Breakfast

FINALIST for the Subaru Prize for Excellence in Science Books "This book shows that chemistry is not just relevant to life; it's really, really interesting."—Foreword Reviews, STARRED review A perfect book for readers of *The Physics of Everyday Things* and *Storm in a Teacup* Have you ever wondered why your alarm clock sends you spiraling? Or how toothpaste works on your teeth? Why do cakes and cookies sometimes turn out dry? (Hint: you may not be adding enough sugar.) In *Chemistry for Breakfast*, award-winning chemist and science communicator Mai Thi Nguyen-Kim reveals the amazing chemistry behind everyday things (like baking and toothpaste) and not-so-everyday things (like space travel). With a relatable, funny, and conversational style, she explains essential chemical processes everyone should know—and turns the ordinary into extraordinary. Over the course of a single day, Mai shows us that chemistry is everywhere: we just have to look for it. In the morning, her partner's much-too-loud alarm prompts a deep dive into biological clocks, fight-or-flight responses, and melatonin's role in making us sleepy. Before heading to the lab, she explains how the stress hormone cortisol helps wake us up, and brews her morning coffee with a side of heat conduction and states of matter. Mai continues her day with explainers of cell phone technology, food preservation, body odor, baking, the effects of alcohol, and the chemistry behind the expression "love drunk." All the while, she shows us what it's really like to be a working chemist, and fights against the stereotype of a nerd playing with test tubes in a lab coat. Filled with charming illustrations, laughter, and plenty of surprises, *Chemistry for Breakfast* is a perfect book for anyone who wants to deepen their understanding of chemistry without having prior knowledge of the science. With Mai as your guide, you'll find something fascinating everywhere around you.

Practical Ethics

For thirty years, Peter Singer's *Practical Ethics* has been the classic introduction to applied ethics. For this third edition, the author has revised and updated all the chapters and added a new chapter addressing climate change, one of the most important ethical challenges of our generation. Some of the questions discussed in this book concern our daily lives. Is it ethical to buy luxuries when others do not have enough to eat? Should we buy meat from intensively reared animals? Am I doing something wrong if my carbon footprint is above the global average? Other questions confront us as concerned citizens: equality and discrimination on the grounds of race or sex; abortion, the use of embryos for research and euthanasia; political violence and terrorism; and the preservation of our planet's environment. This book's lucid style and provocative arguments make it an ideal text for university courses and for anyone willing to think about how she or he ought to live.

Simpson's Forensic Medicine

This fully updated thirteenth edition of *Simpson's Forensic Medicine* remains a classic introductory text to the field. Continuing its tradition of preparing the next generation of forensic practitioners, it presents essential concepts in the interface between medicine and the law. Twenty-four chapters cover basic science, toxicology, forensic odont

Pharmaceuticals, Corporate Crime and Public Health

The pharmaceutical industry exists to serve the community, but over the years it has engaged massively in corporate crime, with the public footing the bill. This readable study by experts in medicine, law, criminology and public health documents the pr

From Poverty to Power

Offers a look at the causes and effects of poverty and inequality, as well as the possible solutions. This title features research, human stories, statistics, and compelling arguments. It discusses about the world we live in and how we can make it a better place.

The Invisible Man

Late one night, a man covered in bandages wanders into a village. The villagers soon grow suspicious of the stranger. When the villagers attempt to arrest him, the stranger suddenly reveals his secret. He is invisible!

We

We is a dystopian novel written by Russian writer Yevgeny Zamyatin. Originally drafted in Russian, the book could be published only abroad. It was translated into English in 1924. Even as the book won a wide readership overseas, the author's satiric depiction led to his banishment under Joseph Stalin's regime in the then USSR. The book's depiction of life under a totalitarian state influenced the other novels of the 20th century. Like Aldous Huxley's *Brave New World* and George Orwell's *Nineteen Eighty-four*, *We* describes a future socialist society that has turned out to be not perfect but inhuman. Orwell claimed that *Brave New World* must be partly derived from *We*, but Huxley denied this. The novel is set in the future. D-503, a spacecraft engineer, lives in the One State which assists mass surveillance. Here life is scientifically managed. There is no way of referring to people except by their given numbers. The society is run strictly by reason as the primary justification for the construct of the society. By way of formulae and equations outlined by the One State, the individual's behaviour is based on logic.

The Taming of Chance

This book combines detailed scientific historical research with characteristic philosophic breadth and verve.

Down by the River

"Phil Jordan runs DEA intelligence, but when his brother Bruno is killed, he is powerless. Amado Carillo Fuentes runs the most successful drug business in the history of the world, but when his usefulness to governments ceases, he mysteriously dies in a hospital. Carlos Salinas runs Mexico, but as soon as he leaves office, his brother is jailed for murder and Salinas flees into exile. Sal Martinez, DEA agent and Bruno's cousin, does the secret work of the U. S. government in Mexico, but when he seeks revenge for his cousin's murder, he is sentenced to a term in federal prison." "Beneath all the policy statements and bluster of politicians is a real world of lies, pain, and money." "Down by the River is the tale of how a murder led one American family into this world and how it all but destroyed them. Of how one Mexican drug leader outfought and outthought the U. S. government. Of how major financial institutions fattened on the drug industry. And how the governments of the United States and Mexico buried everything that happened."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Clarke's Analytical Forensic Toxicology

This invaluable textbook, written by international experts, covers all the main elements of forensic toxicology and analytical toxicology techniques as well as the important parts of pharmacokinetics, drug metabolism, and pharmacology in general, with a particular focus on drugs of abuse.

Rosewater

Winner of the Arthur C. Clarke Award 2019 Winner of the inaugural Nommo Award for Best Novel, Africa's first award for speculative fiction Shortlisted for the Kitschie Award for Best Novel 2019 John W.

Campbell Award finalist for Best Science Fiction Novel 'A magnificent tour de force' Adrian Tchaikovsky 'Smart. Gripping. Fabulous!' Ann Leckie 'Mesmerising' M. R. Carey 'An astonishing book. I wish I'd written it' Lauren Beukes Rosewater is a town on the edge. A community formed around the edges of a mysterious alien biodome, its residents comprise the hopeful, the hungry and the helpless - people eager for a glimpse inside the dome or a taste of its rumoured healing powers. Kaaro is a government agent with a criminal past. He has seen inside the biodome, and doesn't care to again - but when something begins killing off others like himself, Kaaro must defy his masters to search for an answer, facing his dark history and coming to a realisation about a horrifying future. Rosewater is the start of a vibrant and compellingly told trilogy by one of science fiction's most engaging new voices - perfect for fans of N. K. Jemisin's The Fifth Season, Ann Leckie's Ancillary Justice and Jeff Vandermeer's Southern Reach trilogy.

The Origin of the Family, Private Property and the State

The most influential theory of the origins of women's oppression in the modern era, in a beautiful new edition In this provocative and now-classic work, Frederick Engels explores the interrelated development of the family and the state from ancient society to the Victorian era. Drawing on new anthropological theories of his time, Engels argued that matriarchal communal societies had been overthrown by class society and its emphasis on private, not communal, property and monogamous, rather than polygamous, sexual organization. This historical development, Engels argued, constituted "the world-historic defeat of the female sex." A masterclass in the application of materialist thought to history and anthropology, and touching on love, monogamy, property, and the development of the human, this landmark work is still foundational in Marxist and socialist feminist theory.

A Taste for Poison

"A fascinating tale of poisons and poisonous deeds which both educates and entertains." --Kathy Reichs A brilliant blend of science and crime, A TASTE FOR POISON reveals how eleven notorious poisons affect the body--through the murders in which they were used. As any reader of murder mysteries can tell you, poison is one of the most enduring—and popular—weapons of choice for a scheming murderer. It can be slipped into a drink, smeared onto the tip of an arrow or the handle of a door, even filtered through the air we breathe. But how exactly do these poisons work to break our bodies down, and what can we learn from the damage they inflict? In a fascinating blend of popular science, medical history, and true crime, Dr. Neil Bradbury explores this most morbidly captivating method of murder from a cellular level. Alongside real-life accounts of murderers and their crimes—some notorious, some forgotten, some still unsolved—are the equally compelling stories of the poisons involved: eleven molecules of death that work their way through the human body and, paradoxically, illuminate the way in which our bodies function. Drawn from historical records and current news headlines, A Taste for Poison weaves together the tales of spurned lovers, shady scientists, medical professionals and political assassins to show how the precise systems of the body can be impaired to lethal effect through the use of poison. From the deadly origins of the gin & tonic cocktail to the arsenic-laced wallpaper in Napoleon's bedroom, A Taste for Poison leads readers on a riveting tour of the intricate, complex systems that keep us alive—or don't.

Omnia Sunt Communia

In this weaving of radical political economy, Omnia Sunt Communia sets out the steps to postcapitalism. By conceptualising the commons not just as common goods but as a set of social systems, Massimo De Angelis shows their pervasive presence in everyday life, mapping out a strategy for total social transformation. From the micro to the macro, De Angelis unveils the commons as fields of power relations – shared space, objects, subjects – that explode the limits of daily life under capitalism. He exposes attempts to co-opt the commons, through the use of code words such as 'participation' and 'governance', and reveals the potential for radical transformation rooted in the reproduction of our communities, of life, of work and of society as a whole.

Poison and Poisoning in Science, Fiction and Cinema

This book is about poison and poisonings; it explores the facts, fears and fictions that surround this fascinating topic. Poisons attract attention because they are both dangerous and hard to discover. Secretive and invisible, they are a challenging object of representation. How do science studies, literature, and especially film—the medium of the visible—explain and show what is hidden? How

can we deal with uncertainties emerging from the ambivalence of dangerous substances? These considerations lead the editors of this volume to the notion of “precarious identities” as a key discursive marker of poisons and related substances. This book is unique in facilitating a multi-faceted conversation between disciplines. It draws on examples from historical cases of poisoning; figurations of uncertainty and blurred boundaries in literature; and cinematic examples, from early cinema and arthouse to documentary and blockbuster. The contributions work with concepts from gender studies, new materialism, post-colonialism, deconstructivism, motif studies, and discourse analysis.

Sexing the Body

Now updated with groundbreaking research, this award-winning classic examines the construction of sexual identity in biology, society, and history. Why do some people prefer heterosexual love while others fancy the same sex? Is sexual identity biologically determined or a product of convention? In this brilliant and provocative book, the acclaimed author of *Myths of Gender* argues that even the most fundamental knowledge about sex is shaped by the culture in which scientific knowledge is produced. Drawing on astonishing real-life cases and a probing analysis of centuries of scientific research, Fausto-Sterling demonstrates how scientists have historically politicized the body. In lively and impassioned prose, she breaks down three key dualisms -- sex/gender, nature/nurture, and real/constructed -- and asserts that individuals born as mixtures of male and female exist as one of five natural human variants and, as such, should not be forced to compromise their differences to fit a flawed societal definition of normality.

Sophie's World

The international bestseller about life, the universe and everything. 'A simply wonderful, irresistible book' DAILY TELEGRAPH 'A terrifically entertaining and imaginative story wrapped round its tough, thought-provoking philosophical heart' DAILY MAIL 'Remarkable ... an extraordinary achievement' SUNDAY TIMES When 14-year-old Sophie encounters a mysterious mentor who introduces her to philosophy, mysteries deepen in her own life. Why does she keep getting postcards addressed to another girl? Who is the other girl? And who, for that matter, is Sophie herself? To solve the riddle, she uses her new knowledge of philosophy, but the truth is far stranger than she could have imagined. A phenomenal worldwide bestseller, *SOPHIE'S WORLD* sets out to draw teenagers into the world of Socrates, Descartes, Spinoza, Hegel and all the great philosophers. A brilliantly original and fascinating story with many twists and turns, it raises profound questions about the meaning of life and the origin of the universe.

Chronicles of Wasted Time

I am very much aware that it is an act of extreme rashness to attempt to write an elementary book about structures. Indeed it is only when the subject is stripped of its mathematics that one begins to realize how difficult it is to pin down and describe those structural concepts which are often called 'elementary'; by which I suppose we mean 'basic' or 'fundamental'. Some of the omissions and oversimplifications are intentional but no doubt some of them are due to my own brute ignorance and lack of understanding of the subject. Although this volume is more or less a sequel to *The New Science of Strong Materials* it can be read as an entirely separate book in its own right. For this reason a certain amount of repetition has been unavoidable in the earlier chapters. I have to thank a great many people for factual information, suggestions and for stimulating and sometimes heated discussions. Among the living, my colleagues at Reading University have been generous with help, notably Professor W. D. Biggs (Professor of Building Technology), Dr Richard Chaplin, Dr Giorgio Jeronimidis, Dr Julian Vincent and Dr Henry Blyth; Professor Anthony Flew, Professor of Philosophy, made useful suggestions about the last chapter. I am also grateful to Mr John Bartlett, Consultant Neurosurgeon at the Brook Hospital. Professor T. P. Hughes of the University of the West Indies has been helpful about rockets and many other things besides. My secretary, Mrs Jean Collins, was a great help in times of trouble. Mrs Nethercot of Vogue was kind to me about dressmaking. Mr Gerald Leach and also many of the editorial staff of Penguins have exercised their accustomed patience and helpfulness. Among the dead, I owe a great deal to Dr Mark Pryor - lately of Trinity College, Cambridge - especially for discussions about biomechanics which extended over a period of nearly thirty years. Lastly, for reasons which must surely be obvious, I owe a humble oblation to Herodotus, once a citizen of Halicarnassus.

Structures or Why things don't fall down

Aleph is a machine mentality overseeing a future Earth largely bereft of humans, most of whom have sublimed into a virtuality. Remaining are the smug but cautious adherents of science. Amanda, still a teen at age 30, is a skilled violinist and mathematician but craves the applause of the Mall for some daring exploit. In a nearby enclave live the rustic, non-scientific people who worship the god of their choice. In the center of their poly-religious valley a wicked tower has emerged, surely a tool of evil temptation. Far below, a supersonic railroad is being constructed. Amanda conceives a dangerous feat: to enter the valley and descend to the rushing train, hitching a mad ride to the next city. Using a cyber "Liar bee," she buzzes the ear of young Matthewmark, who chafes under the restrictions of his own narrow society. He agrees to aid Amanda and her friend Vikram Singh, but the scheme goes horribly wrong. Vik dies; Matthewmark's brain is seriously damaged, although he recovers with advanced neurological prostheses. This treatment, condemned by his own people, allows him contact with the AI Aleph. In a series of startling moves, Amanda graduates to adulthood (and her modish clipped speech patterns give way to this new sophistication), while Matthewmark explores uncanny and sometimes very funny opportunities in the Alephverse, climaxing in the dismantling of the solar system and its embrace by the hyperuniverse beyond ours. This is the Singularity, at last, the Transcension, and everyone lives happily ever after, for rather mindboggling values of "lives" and "happily."

Transcension

Recent political, religious, ethnic, and racial conflicts, as well as mass disasters, have significantly helped to bring to light the almost unknown discipline of forensic anthropology. This science has become particularly useful to forensic pathologists because it aids in solving various puzzles, such as identifying victims and documenting crimes. On topics such as mass disasters and crimes against humanity, teamwork between forensic pathologists and forensic anthropologists has significantly increased over the few last years. This relationship has also improved the study of routine cases in local medicolegal institutes. When human remains are badly decomposed, partially skeletonized, and/or burned, it is particularly useful for the forensic pathologist to be assisted by a forensic anthropologist. It is not a one-way situation: when the forensic anthropologist deals with skeletonized bodies that have some kind of soft tissue, the advice of a forensic pathologist would be welcome. Forensic anthropology is a subspecialty/field of physical anthropology. Most of the background on skeletal biology was gathered on the basis of skeletal remains from past populations. Physical anthropologists then developed an indisputable "know-how"; nevertheless, one must keep in mind that looking for a missing person or checking an assumed identity is quite a different matter. Pieces of information needed by forensic anthropologists require a higher level of reliability and accuracy than those granted in a general archaeological context. To achieve a positive identification, findings have to match with evidence, particularly when genetic identification is not possible.

Forensic Anthropology and Medicine

For undergraduate or graduate courses that include planning, conducting, and evaluating research. A do-it-yourself, understand-it-yourself manual designed to help students understand the fundamental structure of research and the methodical process that leads to valid, reliable results. Written in uncommonly engaging and elegant prose, this text guides the reader, step-by-step, from the selection of a problem, through the process of conducting authentic research, to the preparation of a completed report, with practical suggestions based on a solid theoretical framework and sound pedagogy. Suitable as the core text in any introductory research course or even for self-instruction, this text will show students two things: 1) that quality research demands planning and design; and, 2) how their own research projects can be executed effectively and professionally.

Practical Research