

Site To Download Emsley John Elements The To Z A An Blocks Building Natures

Getting the books **Emsley John Elements The To Z A An Blocks Building Natures** now is not type of inspiring means. You could not deserted going in imitation of ebook heap or library or borrowing from your links to gate them. This is an definitely simple means to specifically get lead by on-line. This online notice Emsley John Elements The To Z A An Blocks Building Natures can be one of the options to accompany you afterward having extra time.

It will not waste your time. admit me, the e-book will agreed manner you other business to read. Just invest little become old to approach this on-line proclamation **Emsley John Elements The To Z A An Blocks Building Natures** as with ease as evaluation them wherever you are now.

KEY=NATURES - RANDOLPH LAM

NATURE'S BUILDING BLOCKS

AN A-Z GUIDE TO THE ELEMENTS

Oxford University Press, USA Presents chemical, physical, nuclear, electron, crystal, biological, and geological data on all the chemical elements.

THE 13TH ELEMENT

THE SORDID TALE OF MURDER, FIRE, AND PHOSPHORUS

Wiley The incredible "glowing" history of the "Devil's element "phosphorus Discovered by alchemists, prescribed by apothecaries, exploited by ninth-century industrialists, and abused by twentieth-century combatants, the chemical element phosphorus has fascinated us for more than three centuries. It may even be the cause of will-o'-the wisps and spontaneous human combustion! Now John Emsley has written an enthralling account of this eerily luminescent element. Shining with wonderful nuggets-from murders-by-phosphorus to a match factory strike; from the firebombing of Hamburg to the deadly compounds derived from phosphorus today-The 13th Element weaves together a rich tableau of brilliant and oddball characters, social upheavals, and bizarre events.

THE ENCYCLOPEDIA AMERICANA

THE ELEMENTS OF MURDER

A HISTORY OF POISON

Oxford University Press 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.

THE SHOCKING HISTORY OF PHOSPHORUS

A BIOGRAPHY OF THE DEVIL'S ELEMENT

For over 300 years, the chemical element phosphorus maimed, killed, polluted and burned - yet doctors prescribed it and whole industries were dedicated to its manufacture. This is a history of phosphorus, from its genesis through to its modern-day use in pesticides and household chemicals.

THE ELEMENTS

Oxford University Press Presents chemical, physical, nuclear, electron, crystal, biological, and geological data on all the chemical elements

FROM ALCHEMY TO CHEMISTRY IN PICTURE AND STORY

Wiley-Interscience Praise for From Alchemy to Chemistry in Picture and Story "The timeline from alchemy to chemistry contains some of the most mystifying ideas and images that humans have ever devised. Arthur Greenberg shows us this wonderful world in a unique and highly readable book." —Dr. John Emsley, author of The Elements of Murder: A History of Poison "Art Greenberg takes us, through text and lovingly selected images, on a 'magical mystery tour' of the chemical universe. No matter what page you open, there is a chemical story worth telling." —Dr. Roald Hoffmann, Nobel Laureate and coauthor of Chemistry Imagined "Chemistry has perhaps the most intricate, most fascinating, and certainly most romantic history of all the sciences. Arthur Greenberg's essays-delightful, learned, quirky, highly personal, and richly illustrated with contemporary drawings (many of great rarity and beauty)-provide a kaleidoscope of intellectual landscapes, bringing the experiments, the ideas, and the human figures of chemistry's past intensely alive." —Dr. Oliver Sacks, author of Awakenings From Alchemy to Chemistry in Picture and Story takes you on an illustrated tour of chemistry's fascinating history, from its early focus on the spiritual relationship between man and nature to some of today's most cutting-edge applications. Drawing from rare publications and artwork that span over five centuries, the book contains nearly 200 essays and over 350 illustrations-including 24 in full color-that tell the engaging story of the development of this fundamental science and its connection with human history. Join Arthur Greenberg as he combines the "best of the best" from his previous works (as well as several new essays) to paint a colorful picture of chemistry's remarkable origins!

BIBLIOGRAPHIC INDEX

SUBSTRATE GEOCHEMISTRY AND SOIL DEVELOPMENT IN BOREAL FOREST AND TUNDRA ECOSYSTEMS IN THE YUKON-TANANA UPLAND AND SEWARD PENINSULA, ALASKA

Geological Survey (USGS)

THE ENCYCLOPEDIA AMERICANA

Danbury, Conn. : Grolier

NEW SCIENTIST

MORE MOLECULES OF MURDER

Royal Society of Chemistry 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.

THE INHERITOR'S POWDER: A TALE OF ARSENIC, MURDER, AND THE NEW FORENSIC SCIENCE

W. W. Norton & Company Describes the 1833 case that helped change the way murderers who used poison were prosecuted, when an unknown chemist created a test that could determine the presence of arsenic in the body. 15,000 first printing.

VANITY, VITALITY, AND VIRILITY: THE SCIENCE BEHIND THE PRODUCTS YOU LOVE TO BUY

OUP Oxford 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. - ;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. Chemistry is too often associated with poisonous gases and strange bubbling solutions, yet it is all around us, and inside us too. Renowned science communicator John Emsley lifts the lid on the secrets inside the products we use every day. -

MOLECULES AT AN EXHIBITION

PORTRAITS OF INTRIGUING MATERIALS IN EVERYDAY LIFE

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

THE PERIODIC KINGDOM

A JOURNEY INTO THE LAND OF THE CHEMICAL ELEMENTS

Hachette UK A 'travel guide' to the periodic table, explaining the history, geography and the rules of behaviour in this imagined land. The Periodic Kingdom is a journey of imagination in which Peter Atkins treats the periodic table of elements - the 109 chemical elements in the world, from which everything is made - as a country, a periodic kingdom, each region of which corresponds to an element. Arranged much like a travel guide, the book introduces the reader to the general features of the table, the history of the elements, and the underlying arrangement of the table in terms of the structure and properties of atoms. Atkins sees elements as finely balanced living personalities, with quirks of character and certain, not always outward, dispositions, and the kingdom is thus a land of intellectual satisfaction and infinite delight.

ATKINS' MOLECULES

Cambridge University Press Table of contents

THE TRUTH ABOUT CRIME

SOVEREIGNTY, KNOWLEDGE, SOCIAL ORDER

University of Chicago Press This new book by the well-known anthropologists Jean and John L. Comaroff explores the global preoccupation with criminality in the early twenty-first century, a preoccupation strikingly disproportionate, in most places and for most people, to the risks posed by lawlessness to the conduct of everyday life. Ours in an epoch in which law-making, law-breaking, and law-enforcement are ever more critical registers in which societies construct, contest, and confront truths about themselves, an epoch in which criminology, broadly defined, has displaced sociology as the privileged means by which the social world knows itself. They also argue that as the result of a tectonic shift in the triangulation of capital, the state, and governance, the meanings attached to crime and, with it, the nature of policing, have undergone significant change; also, that there has been a palpable muddying of the lines between legality and illegality, between corruption and conventional business; even between crime-and-policing, which exist, nowadays, in ever greater, hyphenated complicity. Thinking through Crime and Policing is, therefore, an excursion into the contemporary Order of Things; or, rather, into the metaphysic of disorder that saturates the late modern world, indeed, has become its leitmotif. It is also a meditation on sovereignty and citizenship, on civility, class, and race, on the law and its transgression, on the political economy of representation.

MOLECULES: A VERY SHORT INTRODUCTION

OUP Oxford The processes in a single living cell are akin to that of a city teeming with molecular inhabitants that move, communicate, cooperate, and compete. In this Very Short Introduction, Philip Ball explores the role of the molecule in and around us - how, for example, a single fertilized egg can grow into a multi-celled Mozart, what makes spider's silk insoluble in the morning dew, and how this molecular dynamism is being captured in the laboratory, promising to reinvent chemistry as the central creative science of the century. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

THE MAUDSLEY PRESCRIBING GUIDELINES IN PSYCHIATRY

John Wiley & Sons The revised 13th edition of the essential reference for the prescribing of drugs for patients with mental health disorders The revised and updated 13th edition of The Maudsley Prescribing Guidelines in Psychiatry provides up-to-date information, expert guidance on prescribing practice in mental health, including drug choice, treatment of adverse effects and how to augment or switch medications. The text covers a wide range of topics including pharmacological interventions for schizophrenia, bipolar disorder, depression and anxiety, and many other less common conditions. There is advice on prescribing in children and adolescents, in substance misuse and in special patient groups. This world-renowned guide has been written in concise terms by an expert team of psychiatrists and specialist pharmacists. The Guidelines help with complex prescribing problems and include information on prescribing psychotropic medications outside their licensed indications as well as potential interactions with other medications and substances such as alcohol, tobacco and caffeine. In addition, each of the book's 165 sections features a full reference list so that evidence on which guidance is based can be readily accessed. This important text: Is the world's leading clinical resource for evidence-based prescribing in day-to-day clinical practice and for formulating prescribing policy Includes referenced information on topics such as transferring from one medication to another, prescribing psychotropic medications during pregnancy or breastfeeding, and treating patients with comorbid physical conditions, including impaired renal or hepatic function. Presents guidance on complex clinical problems that may not be encountered routinely Written for psychiatrists, neuropharmacologists, pharmacists and clinical psychologists as well as nurses and medical trainees, The Maudsley Prescribing Guidelines in Psychiatry are the established reference source for ensuring the safe and effective use of medications for patients presenting with mental health problems.

THE ALKALINE EARTH METALS

BERYLLIUM, MAGNESIUM, CALCIUM, STRONTIUM, BARIUM, RADIUM

The Rosen Publishing Group, Inc Explains the characteristics of alkaline earth metals, where they are found, how they are used by humans, and their relationship to other elements found in the periodic table.

TRANSFORMING RESEARCH METHODS IN THE SOCIAL SCIENCES

CASE STUDIES FROM SOUTH AFRICA

Wits University Press Social science researchers in the global South, and in South Africa particularly, utilise research methods in innovative ways in order to respond to contexts characterised by diversity, racial and political tensions, socioeconomic disparities and gender inequalities. These methods often remain undocumented - a gap that this book starts to address. Written by experts from various methodological fields, Transforming Research Methods in the Social Sciences is a comprehensive collation of original essays and cutting-edge research that demonstrates the variety of novel techniques and research methods available to researchers responding to these context-bound issues. It is particularly relevant for study and research in the fields of applied psychology, sociology, ethnography, biography and anthropology. In addition to their unique combination of conceptual and application issues, the chapters also include discussions on ethical considerations relevant to the method in similar global South contexts. Transforming Research Methods in the Social Sciences has much to offer to researchers, professionals and others involved in social science research both locally and internationally.

STORIES OF THE INVISIBLE

A GUIDED TOUR OF MOLECULES

Oxford University Press, USA What are things made of? 'Everything is composed of small molecules of itself, and they are flying around in concentric circles and arcs and segments,' explains Sergeant Fottrell in Flann O'Brien's The Dalkey Archive. Philip Ball shows that the world of the molecule is indeed a dynamic place. Using the chemistry of life as a springboard, he provides a new perspective on modern chemical science as a whole. Living cells are full of molecules in motion, communication, cooperation, and competition. Molecular scientists are now starting to capture the same dynamism in synthetic molecular systems, promising to reinvent chemistry as the central creative science of the new century.

POISONS

FROM HEMLOCK TO BOTOX TO THE KILLER BEAN OF CALABAR

Arcade Publishing A tour of the many applications of common toxins traces their origins and detection processes as well as their use in medicine, food, cleaning products, cosmetics, and war, in an account that also cites the utilization of poisons throughout history and in key literary works. By the author of Bittersweet: The Story of Sugar.

BEHAVIOURAL PHENOTYPES

Cambridge University Press A timely distillation of current thinking on the presentation of behavioural disorders and their origins.

MARCH'S ADVANCED ORGANIC CHEMISTRY

REACTIONS, MECHANISMS, AND STRUCTURE

John Wiley & Sons

CHEMISTRY FOR SUSTAINABLE DEVELOPMENT

Springer Science & Business Media Chemistry for Sustainable Development is a collection of selected papers by the participants of the International Conference on Pure and Applied Chemistry (ICPAC 2010) on the theme of "Chemistry for Sustainable Development" held in Mauritius in July 2010. In light of the significant progresses and challenges in the development and implementation of green and sustainable chemistry, this volume reviews the recent results generated by a more efficient use of resources to minimize carbon footprints, to foster the eradication or minimisation of solvent use in chemistry, and to deliver processes which lead to increased harmony between chemistry and the environment. Chemistry for Sustainable Development is written for graduates, postgraduates, researchers in industry and academia who have an interest in the fields ranging from fundamental to applied chemistry.

CULINARY REACTIONS

THE EVERYDAY CHEMISTRY OF COOKING

Chicago Review Press When you're cooking, you're a chemist! Every time you follow or modify a recipe, you are experimenting with acids and bases, emulsions and suspensions, gels and foams. In your kitchen you denature proteins, crystallize compounds, react enzymes with substrates, and nurture desired microbial life while suppressing harmful bacteria and fungi. And unlike in a laboratory, you can eat your experiments to verify your hypotheses. In *Culinary Reactions*, author Simon Quellen Field turns measuring cups, stovetop burners, and mixing bowls into graduated cylinders, Bunsen burners, and beakers. How does altering the ratio of flour, sugar, yeast, salt, butter, and water affect how high bread rises? Why is whipped cream made with nitrous oxide rather than the more common carbon dioxide? And why does Hollandaise sauce call for "clarified" butter? This easy-to-follow primer even includes recipes to demonstrate the concepts being discussed, including: Whipped Creamsicle Topping—a foam & Cherry Dream Cheese—a protein gel & Lemonade with Chameleon Eggs—an acid indicator

WHY DOES ASPARAGUS MAKE YOUR WEE SMELL?

AND 57 OTHER CURIOUS FOOD AND DRINK QUESTIONS

Hachette UK Why does cooking bacon smell so good? Can cheese really give you bad dreams? Why do onions make you cry? Find out the answers in this illustrated compendium of amazing and easy-to-understand chemistry. Featuring 58 different questions, you will discover all sorts of wonderful science that affects us on daily basis. Andy Brunning opens up the chemical world behind the sensations we experience through food and drink - popping candy, hangovers, spicy chillies and many more. Exploring the aromas, flavours and bodily reactions with beautiful infographics and explanations, *WHY DOES ASPARAGUS MAKE YOUR WEE SMELL?* is guaranteed to satisfy curious minds. And did you know that nutmeg can make you hallucinate? Prepare to be astounded by chemical breakdown like never before.

COMPUTATIONAL CHEMISTRY USING THE PC

VCH Publishers An introduction to computational chemistry, molecular orbital calculations and molecular mechanics. This second edition takes in recent developments in hardware and software. The book includes a disk with about 50 complete projects and selected output files suitable for self-study.

MACMILLAN ENCYCLOPEDIA OF PHYSICS

Macmillan Library Reference Offers clear explanations of the basic concepts, history, philosophy, fundamental theories and laws of physics, as well as biographical entries featuring physicists who have contributed to our knowledge of the physical world. The set will be useful for physics students from high school through graduate school and for general readers exploring the mysteries of everyday life, such as: What causes earthquakes?; How do CAT Scans work?; or, How do clouds form? Articles are arranged in alphabetical order and include cross-references and bibliographic references as recent as 1996. Volume one contains a Reader's Guide which identifies some key entries in the encyclopedia's plan. A table of symbols and abbreviations is included at the beginning of each volume to assist readers unfamiliar with any mathematical or scientific notation that might arise. The 4-volume set offers readers clear explanations for the phenomena, concepts, and laws that are the foundation of every other branch of science from astronomy to zoology. The entries are written to let readers satisfy their curiosity without becoming lost in high-level jargon. Specifically written to supplement the high school physics curriculum, the Encyclopedia satisfies the informational needs of a broad range of readers.

CHEMISTRY AT HOME

EXPLORING THE INGREDIENTS IN EVERYDAY PRODUCTS

Royal Society of Chemistry Hand cream, detergent, shower gel, toothpaste, toilet cleaner, air freshener, lipstick, perfume, low-fat spread, painkiller, diet drink, insect repellent... hundreds of everyday products that make our lives so much better than those of our forebears. And yet most of us know little about the ingredients they contain and why they deliver the benefits we enjoy. Some people find it worrying when they examine the list of ingredients on a packaging label, because all they read may be unintelligible names or E numbers. It appears to be just chemicals, chemicals, chemicals. The aim of this book is to examine the ingredients more closely and explain the reasons for their being used. Start reading and stop worrying. *Chemistry at Home* has been written by award-winning popular science writer and chemist, John Emsley, using non-technical language. The book has 12 chapters, each devoted to the kinds of products we are likely to find around the home, including in the garage and the garden shed. *Chemistry at Home* also includes a glossary which gives more technical information about the molecules mentioned in the book.

NATURE'S CLOCKS

HOW SCIENTISTS MEASURE THE AGE OF ALMOST EVERYTHING

Univ of California Press "Radioactivity is like a clock that never needs adjusting," writes Doug Macdougall. "It would be hard to design a more reliable timekeeper." In *Nature's Clocks*, Macdougall tells how scientists who were seeking to understand the past arrived at the ingenious techniques they now use to determine the age of objects and organisms. By examining radiocarbon (C-14) dating—the best known of these methods—and several other techniques that geologists use to decode the distant past, Macdougall unwraps the last century's advances, explaining how they reveal the age of our fossil ancestors such as "Lucy," the timing of the dinosaurs' extinction, and the precise ages of tiny mineral grains that date from the beginning of the earth's history. In lively and accessible prose, he describes how the science of geochronology has developed and flourished. Relating these advances through the stories of the scientists themselves—James Hutton, William Smith, Arthur Holmes, Ernest Rutherford, Willard Libby, and Clair Patterson—Macdougall shows how they used ingenuity and inspiration to construct one of modern science's most significant accomplishments: a timescale for the earth's evolution and human prehistory.

HATE CRUSH

They call him the devil. When I crash-landed into him on my first day at Loyola Academy, I was sure that couldn't be true. He was the most gorgeous man I'd ever seen in real life. Little did I know he was also the cruelest. I went from starstruck to stunned the moment his cynical eyes cut through me. I can't tell you what it was that made him want to punish me. But from that day forward the brooding recluse of a man made it his goal to torment me. I want to loathe him, and some days, I do. But good or bad, nobody's attention has ever tasted so sweet. What do you do when you have a hate crush on your bully? Worse yet, what do you do when he's also your teacher? *Hate Crush* is a full length standalone age gap bully romance with a complete ending.

MOLECULES OF MURDER

CRIMINAL MOLECULES AND CLASSIC CASES

Royal Society of Chemistry *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*.

POWER TRANSFORMER DIAGNOSTICS, MONITORING AND DESIGN FEATURES

MDPI This book is a printed edition of the Special Issue "Power Transformer Diagnostics, Monitoring and Design Features" that was published in *Energies*

MODERN PHYSICAL ORGANIC CHEMISTRY

University Science Books In addition to covering thoroughly the core areas of physical organic chemistry -structure and mechanism - this book will escort the practitioner of organic chemistry into a field that has been thoroughly updated.

DECEIVED WISDOM

WHY WHAT YOU THOUGHT WAS RIGHT IS WRONG

Elliot & Thompson Limited Did your mother remind you to take off your coat when inside or you won't 'feel the benefit' when you leave? Have you ever been informed that what you need to cool down is a nice cup of tea? And are you bored of being told that you have to let that red wine breathe first to improve its taste? If so then 'Deceived Wisdom' is the book for you. Organised into easy to read standalone sections, it looks at the facts we all think we know and examines why we don't know them at all. David Bradley's clear and witty writing examines the science behind the statements to reveal the truth behind many popular myths.

THE PERIODIC TABLE

ITS STORY AND ITS SIGNIFICANCE

Oxford University Press, USA The periodic table of elements is among the most recognizable image in science. It lies at the core of chemistry and embodies the most fundamental principles of science. In this new edition, Eric Scerri offers readers a complete and updated history and philosophy of the periodic table. Written in a lively style to appeal to experts and interested lay-persons alike, *The Periodic*

Table: Its Story and Its Significance begins with an overview of the importance of the periodic table and the manner in which the term "element" has been interpreted by chemists and philosophers across time. The book traces the evolution and development of the periodic table from its early beginnings with the work of the precursors like De Chancourtois, Newlands and Meyer to Mendeleev's 1869 first published table and beyond. Several chapters are devoted to developments in 20th century physics, especially quantum mechanics and the extent to which they explain the periodic table in a more fundamental way. Other chapters examine the formation of the elements, nuclear structure, the discovery of the last seven infra-uranium elements, and the synthesis of trans-uranium elements. Finally, the book considers the many different ways of representing the periodic system and the quest for an optimal arrangement.

THE CULTURE OF SECRECY

BRITAIN, 1832-1998

Clarendon Press The Culture of Secrecy is the first comprehensive study of the restriction of official information in modern British history. It seeks to understand why secrets have been kept, and how systems of control have been constructed - and challenged - over the past hundred and sixty years. The author transcends the conventional boundaries of political or social history in his wide-ranging diagnosis of the 'British disease' - the legal forms and habits of mind which together have constituted the national tradition of discreet reserve. The chapters range across bureaucrats and ballots, gossip and gay rights, doctors and dole investigators in their exploration of the ethical basis of power in the public, professional, commercial and domestic spheres. Professor Vincent examines concepts such as privacy and confidentiality, honour and integrity, openness and freedom of expression, which have served as benchmarks in the development of the liberal state and society.