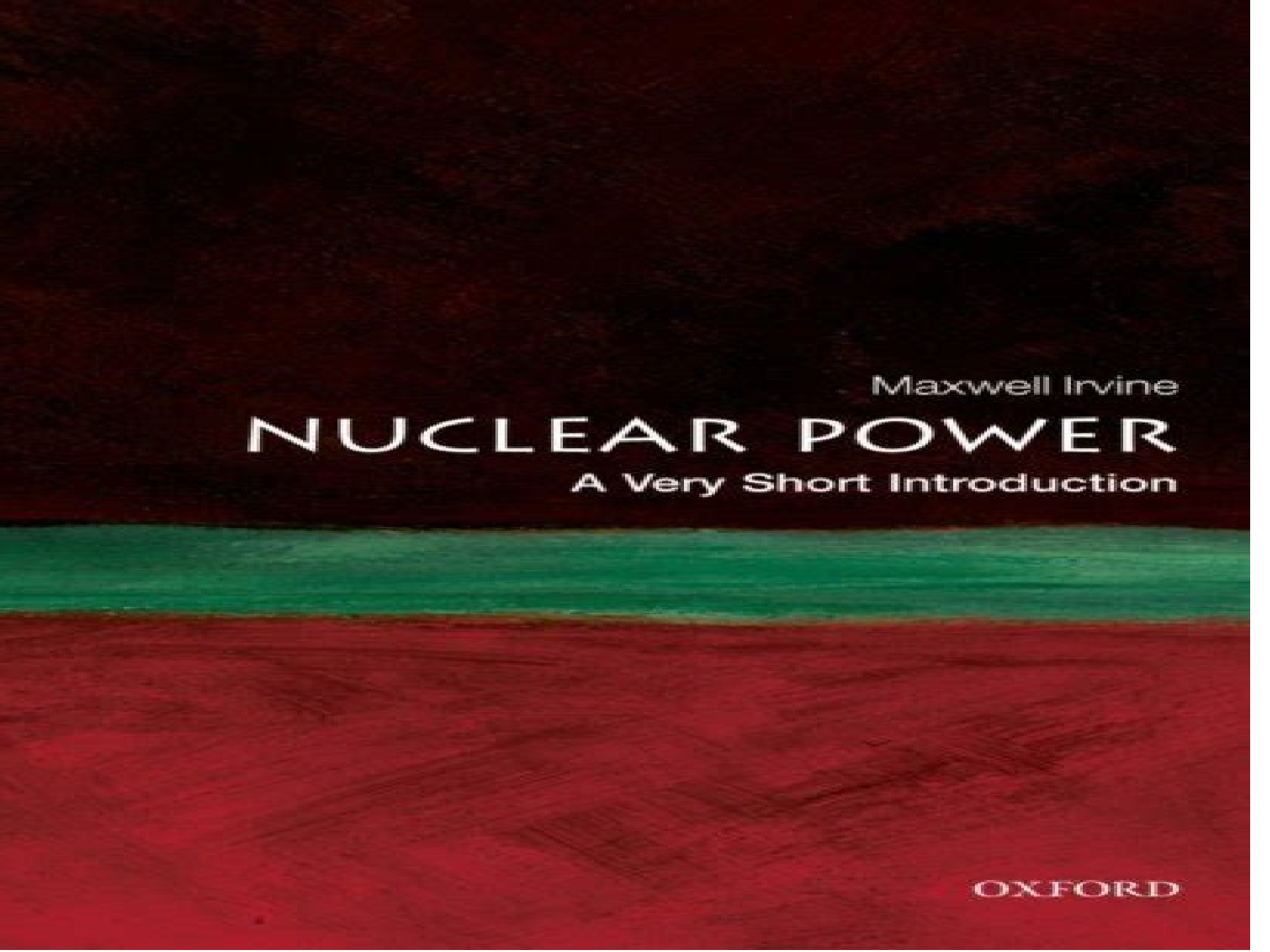




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Nuclear Power A Very Short Introduction

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Bomb is here to stay This Very Short Introduction looks at the science of nuclear weapons and how they differ from conventional weapons Tracing the story of the nuclear bomb Joseph Siracusa chronicles the race to acquire the H bomb a thermonuclear weapon with revolutionary implications and the history of early arms control nuclear deterrence and non proliferation He also tracks the development of nuclear weapons from the origins of the Cold War in 1945 to the end of Moscow dominated Communism in 1991 and examines the promise and prospect of missile defence including Ronald Reagan s Star Wars and George W Bush s National Missile Defence This third edition includes a new chapter on the development of nuclear weapons and the policies they have generated since the end of the Cold War 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

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to change In this Very Short Introduction Nick Jenkins explores our historic investment in the exploitation of fossil energy resources and their current importance and discusses the implications of our increasing rate of energy use He considers the widespread acceptance by scientists and policy makers that our energy systems must reduce emissions of CO₂ and other greenhouse gases and looks forward to the radical changes in fuel technology that will be necessary to continue to provide energy supplies in a sustainable manner and extend access across the developing world Considering the impact of changing to an environmentally benign and low carbon energy system Jenkins also looks at future low carbon energy systems which would use electricity from a variety of renewable energy sources as well as the role of nuclear power in our energy use

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Radioactivity: A

Very Short Introduction Claudio Tuniz, 2012-07-26 Radioactivity the breakdown of unstable atomic nuclei releasing radiation is a fundamental process in nature and used to provide important applications in science medicine and energy production But it remains misunderstood and feared In this *Very Short Introduction* Claudio Tuniz explains the nature and mechanisms of radioactivity

Nuclear Physics: A Very Short Introduction Frank Close, 2015-07-23 Nuclear physics began long before the identification of fundamental particles with J J Thomson's discovery of the electron at the end of the 19th century which implied the existence of a positive charge in the atom to make it neutral In this *Very Short Introduction* Frank Close gives an account of how this area of physics has progressed including the recognition of how heavy nuclei are built up in the cores of stars and in supernovae the identification of quarks and gluons and the development of quantum chromodynamics QCD Exploring key concepts such as the stability of different configurations of protons and neutrons in nuclei Frank Close shows how nuclear physics brings the physics of the stars to Earth and provides us with important applications particularly in medicine

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Environmental Economics: A Very Short Introduction Stephen Smith, 2011-09-22 Environmental economics can be controversial but it is also central to some key policy issues facing governments and society today including industrial pollution global warming and waste recycling Stephen Smith looks at how economic activity affects the environment in which we live and how environmental policies can most effectively be used

Revisiting Nuclear Power Anne C. Cunningham, 2017-07-15 In an era defined by anxiety over global warming and the search for alternative fuel sources nuclear power is rarely part of the conversation It promises limitless power and a drastic reduction in greenhouse gas emissions worldwide Yet it is by no means perfectly safe or clean as Three Mile Island Chernobyl and Fukushima remind us Even so thirty countries are operating 444 reactors accounting for almost 11 percent of the world's electricity production The debate over nuclear energy is a fierce and emotional one and arguments agendas assumptions and factual information must be scrutinized meticulously and carefully This volume allows readers to do just that as they begin to form their own opinions on the viability of nuclear power

War and Technology: A Very Short Introduction Alex Roland, 2016-09-01 The war instinct is part of human nature but the means to fight war depend on technology Alex Roland traces the co evolution of technology and warfare from the Stone Age to the age of cyberwar describing the inventions that changed the direction of warfare throughout history from fortified walls the chariot battleships

and the gunpowder revolution to bombers rockets improvised explosive devices IEDs and nuclear weapons In the twenty first century new technologies continue to push warfare in unexpected directions while warfare stimulates stunning new technological advances Yet even now the newest and best technology cannot guarantee victory Brimming with dramatic narratives of battles and deep insights into military psychology this book shows that although military technologies keep changing at great speed the principles and patterns behind them abide *Minerals: A Very Short Introduction* David Vaughan,2014-10-23 Minerals existed long before any forms of life playing a key role in the origin and evolution of life an interaction with biological systems that we are only now beginning to understand Exploring the traditional strand of mineralogy which emphasises the important mineral families the well established analytical methods optical microscopy and X ray diffraction and the dramatic developments made in techniques over recent decades David Vaughan also introduces the modern strand of mineralogy which explores the role minerals play in the plate tectonic cycle and how they interact with the living world Demonstrating how minerals can be critical for human health and illness by providing essential nutrients and releasing poisons Vaughan explores the multitude of ways in which minerals have aided our understanding of the world 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

Tides: A Very Short Introduction David George Bowers,Emyr Martyn Roberts,2019-11-28 The tide is the greatest synchronised movement of matter on our planet Every drop of seawater takes part in tidal motion driven by the gravitational pull of the moon and sun At the coast we see the tide as a twice daily rise and fall of sea level that moves the edge of the sea up and down a beach or cliff face In some places the tide is small but at others it can rise in a few hours by the height of a three storey building it then has to be treated with great respect by those who live and work by the sea In this Very Short Introduction David George Bowers and Emyr Martyn Roberts explore what we know about the tides Blending clear explanations of well known tidal phenomena with recent insights in the deep ocean and coastal seas Bowers and Roberts use examples from around the world to tell the story of the tide considering its nature and causes its observation and prediction and unusual tides and their relevance They explore why tides have attracted the attention of some of the world s greatest scientists from the initial challenge of explaining why there are two tides a day when the moon and sun pass overhead just once a problem that was solved by Isaac Newton In the 19th century scientists unravelled the rhythms of the tide good tidal predictions in the form of tide tables were then possible The predictions were made on beautiful tide predicting machines constructed of brass and mahogany some of which can still be seen in maritime museums In the 20th century the importance of tides as mixers of sea water became evident As Bowers and Roberts explore tidal mixing of the ocean is essential for maintaining its deep circulation a key part of the climate control system of our planet In inshore waters tidal mixing

enhances biological productivity influences sea temperature and turbidity and creates dramatic features such as maelstroms and tidal bores In the 21st century space probes are examining the effects of tidal processes on the moons of Jupiter and Saturn and the possibility of tidally heated liquid oceans with their own ecosystems Looking to the cutting edge of tidal research Bowers and Roberts also consider how we can study the role of the tide in the geological and biological evolution of our own planet with innovative computer models

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Topology Richard Earl, 2020-01-11 How is a subway map different from other maps What makes a knot knotted What makes the M bius strip one sided These are questions of topology the mathematical study of properties preserved by twisting or stretching objects In the 20th century topology became as broad and fundamental as algebra and geometry with important implications

for science especially physics In this Very Short Introduction Richard Earl gives a sense of the more visual elements of topology looking at surfaces as well as covering the formal definition of continuity Considering some of the eye opening examples that led mathematicians to recognize a need for studying topology he pays homage to the historical people problems and surprises that have propelled the growth of this field 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

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