

## GRADE 12 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.7) on your folio paper. Example 1.8. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A Ethanol and butane  
 B Ethanol and ethanoic acid  
 C Ethanol and propanal  
 D Ethanol and butanoic acid
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A A constant number of different ions are released.  
 B A strong current flows until just before the gap in the circuit is closed.  
 C An electric field is induced in a coil when the current in the coil changes.  
 D An electric field is induced in a coil when the current in the coil is constant.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces such as friction and the ground.  
 B An object is free of contact forces such as friction and the ground.  
 C An object is free of contact forces such as friction and the ground.  
 D An object is free of contact forces such as friction and the ground.
- 1.4 The inertia of an object...
- A is measured by the object's weight.  
 B is the resistance to applied force in the object's motion.  
 C is the resistance to acceleration in the object's motion.  
 D is the resistance to the object's motion.

- 1.5 An astronaut has a weight  $E_E$  on Earth. What distance, in terms of the radius of the Earth ( $r$ ), will the astronaut be if his weight is a 1/4 of his weight ( $E_E$ ) on the surface of the Earth?
- A  $r$   
 B  $2r$   
 C  $4r$   
 D  $16r$

- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.  
 B The box is too light.  
 C The box is too smooth.  
 D The box is too rough.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.  
 B The box is too light.  
 C The box is too smooth.  
 D The box is too rough.

[14]

### QUESTION 2

Three organic compounds (A, B and C) with different functional groups are given below.

A: 2,3-dimethyl-2-one



C:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 2.1 Write down the functional group in compound C and name the cation to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the:  
 2.3.1 IUPAC name of compound A. (2)  
 2.3.2 IUPAC name of compound B. (2)

# Physical Science Paper 1 March 2013 Memorandum

**Peter Hayes, Kiho Yi**



## **Physical Science Paper 1 March 2013 Memorandum:**

The Secure and the Dispossessed Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures

**This Changes Everything** Naomi Klein, 2014-09-16 The most important book yet from the author of the international bestseller *The Shock Doctrine* a brilliant explanation of why the climate crisis challenges us to abandon the core free market ideology of our time restructure the global economy and remake our political systems In short either we embrace radical change ourselves or radical changes will be visited upon our physical world The status quo is no longer an option In *This Changes Everything* Naomi Klein argues that climate change isn't just another issue to be neatly filed between taxes and health care It is an alarm that calls us to fix an economic system that is already failing us in many ways Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities reimagine our broken democracies and rebuild our gutted local economies She exposes the ideological desperation of the climate change deniers the messianic delusions of the would-be geoengineers and the tragic defeatism of too many mainstream green initiatives And she demonstrates precisely why the market has not and cannot fix the climate crisis but will instead make things worse with ever more extreme and ecologically damaging extraction methods accompanied by rampant disaster capitalism Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance but rather as a kind of gift a catalyst to transform broken economic and cultural priorities and to heal long festering historical wounds And she documents the inspiring movements that have already begun this process communities that are not just refusing to be sites of further fossil fuel extraction but are building the next regeneration based economies right now Can we pull off these changes in time Nothing is certain Nothing except that climate change changes everything And for a very brief time the nature of that change is still up to us

**Beyond Control** James F. Barnett Jr., 2017-03-16 *Beyond Control* reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre-existing football field size crater That night the

Mississippi River nearly changed its course for a shorter and steeper path to the sea. Such a map-changing reconfiguration of the country's largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan City at the mouth of the Atchafalaya River. Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico. *Beyond Control* traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago. By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin. A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in 1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi's move into the Atchafalaya Basin. Told against the backdrop of the Lower Mississippi River's impending diversion the book's chapters chronicle historic floods rising flood crests a changing strategy for flood protection and competing interests in the management of the Old River outlet. *Beyond Control* is both a history and a close look at an inexorable living process happening now in the twenty first century.

**Bulk Collection of Signals Intelligence** National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection, 2015-03-24. The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices. The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection. ODNI asked the National Research Council NRC the operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President. Over the ensuing months a committee of experts appointed by the Research Council produced the report.

*Twort's Water Supply* Malcolm J. Brandt, K. Michael Johnson, Andrew J. Elphinston, Don D. Ratnayaka, 2016-09-03. *Twort's Water Supply* Seventh Edition has been expanded to provide the latest tools and techniques to meet engineering challenges over dwindling natural resources. Approximately 1.1 billion people in rural and peri urban communities of developing countries do not have access to safe drinking water. The mortality from diarrhea related diseases amounts to 2.2 million people each year from the consumption of unsafe water. This update reflects the latest WHO European UK and US standards including the European Water Framework Directive. The book also includes an expansion of waste and sludge disposal including energy and sustainability and new chapters on intakes chemical storage handling and sampling. Written for both professionals and students this book is essential reading for anyone working in water engineering. Features expanded coverage of waste and

sludge disposal to include energy use and sustainability Includes a new chapter on intakes Includes a new chapter on chemical storage and handling      **Scientists at War** Sarah Bridger,2015-04-06 Sarah Bridger examines the ethical debates that tested the U S scientific community during the Cold War and scientists contributions to military technologies and strategic policymaking from the dawning atomic age through the Strategic Defense Initiative Star Wars in the 1980s which sparked cross generational opposition among scientists      Engineering Vulnerability Sarah E. Vaughn,2022-02-07 In Engineering Vulnerability Sarah E Vaughn examines climate adaptation against the backdrop of ongoing processes of settler colonialism and the global climate change initiatives that seek to intervene in the lives of the world s most vulnerable Her case study is Guyana in the aftermath of the 2005 catastrophic flooding that ravaged the country s Atlantic coastal plain The country s ensuing engineering projects reveal the contingencies of climate adaptation and the capacity of flooding to shape Guyanese expectations about racial in equality Analyzing the coproduction of race and vulnerability Vaughn details why climate adaptation has implications for how we understand the past and the continued human settlement of a place Such understandings become particularly apparent not only through experts and ordinary citizens disputes over resources but in their attention to the ethical practice of technoscience over time Approaching climate adaptation this way Vaughn exposes the generative openings as well as gaps in racial thinking for theorizing climate action environmental justice and more broadly future life on a warming planet Duke University Press Scholars of Color First Book Award recipient

**Transnational Perspectives on Curriculum History** Gary McCulloch,Ivor Goodson,Mariano González-Delgado,2019-11-22 This book offers a remarkable range of research that emphasises the need to analyse the shaping of curricula under historical social and political variables Teachers life stories the Cold War as a contextual element that framed curricular transformations in the US and Europe and the study of trends in education policy at transnational level are issues addressed throughout The book presents new lines of work offering multidisciplinary perspectives and provides an overview of how to move forwards The book brings together the work of international specialists on Curriculum History and presents research that offers new perspectives and methodologies from which to approach the study of the History of Education and Educational Policy It offers new debates which rethink the historical study of the curriculum and offers a strong interdisciplinary approach with contributions across Education History and the Social Sciences This book will be of great interest for academics and researchers in the fields of education and curriculum studies It will also appeal to educational professionals teachers and policy makers      *Technological Innovation in Legacy Sectors* William B. Bonvillian,Charles Weiss,2015-08-18 The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political

social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don't head our wagons back east to bring innovation to our Legacy sectors By failing to do so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living Technological Innovation in Legacy Sectors uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S's still strong research oriented innovation system

**Road Vehicle Automation 4** Gereon Meyer, Sven Beiker, 2017-06-28 This book is the fourth volume of the sub series of the Lecture Notes in Mobility dedicated to Road Vehicle Automation Its chapters have been written by researchers engineers and analysts from all around the globe Topics covered include public sector activities human factors and challenges ethical legal energy and technology perspectives vehicle systems development as well as transportation infrastructure and planning The book is based on the Automated Vehicles Symposium which took place in San Francisco California USA in July 2016

Investing in Science Massimo Florio, 2019-10-15 A proposal for using cost benefit analysis to evaluate the socioeconomic impact of public investment in large scientific projects Large particle accelerators outer space probes genomics platforms all are scientific enterprises managed through the new form of the research infrastructure in which communities of scientists collaborate across nations universities research institutions and disciplines Such large projects are often publicly funded with no accepted way to measure the benefits to society of these investments In this book Massimo Florio suggests the use of cost benefit analysis CBA to evaluate the socioeconomic impact of public investment in large and costly scientific projects The core concept of CBA of any infrastructure is to undertake the consistent intertemporal accounting of social welfare effects using the available information Florio develops a simple framework for such accounting in the research infrastructure

context and then offers a systematic analysis of the benefits in terms of the social agents involved. He measures the benefits to scientists, students and postdoctoral researchers, the effect on firms of knowledge spillovers, the benefits to users of information technology and science based innovation, the welfare effects on the general public of cultural services provided by RIs and the willingness of taxpayers to fund scientific knowledge creation. Finally Florio shows how these costs and benefits can be expressed in the form of stochastic net present value and other summary indicators.

**Reclamation of Mine-impacted Land for Ecosystem Recovery** Nimisha Tripathi, Raj S. Singh, Colin D. Hills, 2016-02-04 Mining activities significantly impact the environment; they generate huge quantities of spoil, promote deforestation and the loss of agricultural production as well as releasing contaminants that result in the loss of valuable soil resources. These negative impacts are now being recognized and this book shows how corrective action can be taken. The introduction of sustainable mining requires mitigation strategies that start during the mine planning stage and extend to after mineral extraction has ceased and post closure activities are being executed. *Reclamation of Mine impacted Land for Ecosystem Recovery* covers methods of rejuvenation of mine wasteland including different practices of physical, chemical and ecological engineering methods, benefits of rejuvenation, stabilization of land surfaces, pollution control, aesthetic improvement, general amenity, plant productivity and carbon sequestration as well as restoring biodiversity and ecosystem function, best management practices and feasible solutions to the impacts of mining which will reduce the pollution load by reducing the discharge rate and the pollutant concentration, reduce erosion and sedimentation problems and result in improved abandoned mine lands and ecosystem development. The authors explain how mining impacts on soil properties and how soil carbon reserves, soil fertility can be restored when mining has ceased. Restoration involves a coordinated approach that recognizes the importance of key soil properties to enable re-vegetation to take place rapidly and ecosystems to be established in a low cost and sustainable way. This book's unique combination of the methods for reclamation technologies with policies and best practice worldwide will provide the background and the guidance needed by scientists, researchers and engineers engaged in land reclamation as well as by industry managers.

*Complexity, Security and Civil Society in East Asia* Peter Hayes, Kiho Yi, 2015-06-22 *Complexity, Security and Civil Society in East Asia* offers the latest understanding of complex global problems in the region including nuclear weapons, urban insecurity, energy and climate change. Detailed case studies of China, North and South Korea and Japan demonstrate the importance of civil society and civic diplomacy in reaching shared solutions to these problems in East Asia and beyond. Each chapter describes regional civil society initiatives that tackle complex challenges to East Asia's security. In doing so, the book identifies key pressure points at which civil society can push for constructive changes, especially ones that reduce the North Korean threat to its neighbors. Unusually, this book is both theoretical and practical. *Complexity, Security and Civil Society in East Asia* presents strategies that can be led by civil society and negotiated by its diplomats to realize peace, security and sustainability worldwide. It shows that networked civic diplomacy offers

solutions to these urgent issues that official complex diplomacy cannot By providing a new theoretical framework based on empirical observation this volume is a must read for diplomats scholars students journalists activists and individual readers seeking insight into how to solve the crucial issues of our time     Applying the Rasch Model Trevor G. Bond,Christine M. Fox,2013-11-05 Written in an accessible style this book facilitates a deep understanding of the Rasch model Authors Bond and Fox review the crucial properties of the Rasch model and demonstrate its use with a wide range of examples including the measurement of educational achievement human development attitudes and medical rehabilitation A glossary and numerous illustrations further aid the reader s understanding The authors demonstrate how to apply Rasch analysis and prepare readers to perform their own analyses and interpret the results Updated throughout highlights of the Second Edition include a new CD that features an introductory version of the latest Winsteps program and the data files for the book s examples preprogrammed to run using Winsteps a new chapter on invariance that highlights the parallels between physical and human science measurement a new appendix on analyzing data to help those new to Rasch analysis more explanation of the key concepts and item characteristic curves a new empirical example with data sets demonstrates the many facets of the Rasch model and other new examples and an increased focus on issues related to unidimensionality multidimensionality and the Rasch factor analysis of residuals Applying the Rasch Model is intended for researchers and practitioners in psychology especially developmental psychologists education health care medical rehabilitation business government and those interested in measuring attitude ability and or performance The book is an excellent text for use in courses on advanced research methods measurement or quantitative analysis Significant knowledge of statistics is not required     *Governance Feminism* Janet Halley,Prabha Kotiswaran,Rachel Rebouché,Hila Shamir,2019-03-26 An interdisciplinary multifaceted look at feminist engagements with governance across the global North and global South *Governance Feminism Notes from the Field* brings together nineteen chapters from leading feminist scholars and activists to critically describe and assess contemporary feminist engagements with state and state like power Gathering examples from North America South America Europe Asia and the Middle East it complements and expands on the companion volume *Governance Feminism An Introduction* Its chapters argue that governance feminism GF is institutionally diverse and globally distributed emerging from traditional sites of state power as well as from various forms of governance and operating at the grassroots level in the private sector in civil society and in international relations The book begins by confronting the key role that crime and punishment play in GFeminist projects Here contributors explore the ideological and political conditions under which this branch of GF became so robust and rethink the carceral turn Other chapters speak to another face of GFeminism feminists finding in mundane and seemingly unspectacular bureaucratic tools leverage to bring about change in policy and governance practices Several contributions highlight the political strategic and ethical challenges that feminists and LGBT activists must negotiate to play on the governmental field The book concludes with a focus on feminist interventions in postcolonial legal and political orders



looking at new policy spaces opened up by conflict postconflict and occupation Providing a clear cross cutting critical lens through which to map developments in feminist governance around the world Governance Feminism Notes from the Field makes sense of the costs and benefits of current feminist realities to reimagine feminist futures Contributors Libby Adler Northeastern U Aziza Ahmed Northeastern U Elizabeth Bernstein Barnard College Amy J Cohen Ohio State U Karen Engle U of Texas at Austin Jacob Gersen Harvard U Leigh Goodmark U of Maryland Aeyal Gross Tel Aviv U Aya Gruber U of Colorado Boulder Janet Halley Harvard U Rema Hammami Birzeit U Palestine Vanja Hamzi U of London Isabel Cristina Jaramillo Sierra Prabha Kotiswaran King s College London Maleiha Malik King s College London Vasuki Nesiah New York U Dianne Otto Melbourne Law School Helen Reece Darren Rosenblum Pace U Jeannie Suk Gersen Harvard U Mariana Valverde U of Toronto

**Mechanics of Composite Materials** F. W. Wendt, H. Liebowitz, N. Perrone, 2013-10-22 Mechanics of Composite Materials contains the proceedings of the Fifth Symposium on Naval Structural Mechanics held in Philadelphia Pennsylvania on May 8 10 1967 The papers explore the mechanics of composite materials for naval applications The structural requirements of a system and the fundamental mechanical properties of composite materials as well as the behavior of such materials under various environmental conditions are discussed This book is comprised of 40 chapters and begins with an analysis of missile and aircraft systems constraints and operational requirements along with ship systems constraints and operational requirements for composite materials The following chapters focus on structural uses of composites particularly in naval ships aircraft re entry vehicles and space vehicle structures and the micromechanics structural mechanics and failure mechanics of composite materials Problems in the design of joints and attachments are considered along with the stability of pre strained laminated media environmental factors in the design of composite materials and the effect of water on glass reinforced plastics This monograph will be a useful resource for scientists and engineers who are particularly concerned with the mechanics of composite materials

**Digital Solutions for Contemporary Democracy and Government** Bwalya, Kelvin Joseph, Mutula, Stephen, 2015-04-30 The dot com revolution has brought many advances before unimagined Of them all it may be said that none have surpassed e government in attracting a significant number of researchers and practitioners from around the world However the question remains whether everyone is ready to join the e government movement or if some are just blindly following the latest trend Digital Solutions for Contemporary Democracy and Government touches on several key issues and challenges surrounding the recent e government boom and offers practical solutions from those who have been a part of implementing e government programs internationally Due to its breadth of discussion on a variety of topics relating to the intersection of technology with politics democracy and government this authoritative book is a valuable reference source for professionals researchers and students in the field of e government information management or knowledge management

**Arctic Systems** P. Amaria, 2013-03-09 For the purpose of publication of these Proceedings the original conference programme has been rearranged to provide a more logical sequence

of presentation The beginning sections give the inaugural speech and the six keynote addresses which were delivered at the opening plenary session Following these are the working papers published more or less in the same sequence in which they were presented in the original programme The order of presentation does not necessarily emphasise the importance of any one aspect of the Arctic Systems over others The final reports of the six working groups and their conclusions and recommendations are edited in such a manner as to present them in a standardised format for easy comprehension The editors accept responsibility for any distortion inadvertently introduced in the summarising and editing processes Later sections of the Proceedings give a background to the Conference organization and deliberations and an independent critique of the meeting The directors and those who attended the Conference were conscious of the debt of gratitude owed by them to the Conference chairmen rapporteurs authors of working papers and many individuals for their contributions to the success of the meeting We wish to thank them and it is a pleasure to record their names in these Proceedings Inaugural Speaker Dr J Rennie Whitehead Canada Banquet Guest Speaker Honourable Mr T Alex Hickman Canada Keynote Addresses Mr C Bornemann Denmark Dr A E Collin Canada Dr R E Francois U S A

**The Mathematical-Function Computation Handbook** Nelson H.F. Beebe, 2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book's software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology's 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades

*Selected Water Resources Abstracts*, 1977

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individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Physical Science Paper 1 March 2013 Memorandum PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Physical Science Paper 1 March 2013 Memorandum free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

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