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REPUBLIC OF SOUTH AFRICA

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 10**

**PHYSICAL SCIENCES: PHYSICS (P1)**

**EXEMPLAR PAPER - 2006**

**MARKS: 150**

**TIME: 3 hours**

**This question paper consists of 15 pages, an information sheet, an answer sheet and graph paper.**

# 2014 Physical Sciences Paper 1 Exemplar 2014

**Roman Wölfel**



## **2014 Physical Sciences Paper 1 Exemplar 2014:**

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delineated for scenarios involving planar and spherical geometries The text also introduces various solutions pertaining to convergent and divergent shocks in spherical geometries using self similar models The discourse then shifts towards ionization and related atomic processes which govern the dynamics of plasmas created by laser irradiation of mid Z and high Z solids The quantum mechanics of partially ionized atoms and their associated atomic processes are elucidated Concluding the book is an exploration of the physics of warm dense matter WDM an electron system characterized by quantum mechanical many body interactions The study of high density plasmas featuring temperatures around 1 eV is undertaken through the lens of density functional theory DFT The theoretical breakdown of experimental data acquired via the X ray free electron laser X FEL is also provided In essence this second volume of the series amalgamates a comprehensive understanding of compressible hydrodynamics shock wave physics ionization processes energy transfer and the realm of warm dense matter It equips readers to delve into the intricacies of plasma physics and laser interactions while utilizing modern theoretical frameworks and experimental methodologies This is an open access book

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