



Province of the  
**EASTERN CAPE**  
EDUCATION

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 11**

**NOVEMBER 2020**

**ELECTRICAL TECHNOLOGY: POWER SYSTEMS  
(EXEMPLAR)**

**MARKS: 200**

**TIME: 3 hours**



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This question paper consists of 12 pages, including a formula sheet.

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# Electrical Technology Grade 11 Caps

**Ensheng Dong**



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**Electrical Times** ,1965      *Index of Specifications and Standards* ,2005      **Resources in Education** ,1988

**Building Futures** Richard Garber,2023-08-03 BUILDING FUTURES An approach to Information Modeling engaging concepts of equality sustainability and labor as they relate to environment and architectural practice Building Futures Technology Ecology and Architectural Practice explores how architects and the buildings and environments we create can engage future realities both abstract and readily understood These range from climate change and public health to advanced ideas about manufacture and construction The text demonstrates multiple and hybrid paths in which building information modeling BIM and outgrowth technological processes including environmental simulation and human robot interaction can be utilized in today s contemporary context expanding the architect s agency by focusing on a more conceptual and ecological basis for our work Moving beyond a basic understanding of the role of computation in architecture and design the work shows how to think critically and speculatively about technology s deeper and more lasting impacts on both architecture and society Topics covered in Building Futures include Technology information modeling and the relationship between computational and real objects new approaches to coding in architectural design and direct to manufacture workflows Environment understanding part to whole relationships at a variety of scales and the interconnectedness of things post subjective architectural approaches to ecology and new ideas about sustainability Practice revisiting architecture by remote control in the time of new global challenges and novel ideas about creativity authorship and professionalism Design professionals and practice leaders grappling with the relationship of technology to design pedagogy will use Building Futures to better theorize and execute their architectural vision Students in upper level courses studying technique and theory will also find value in the work which prepares incoming professionals for the major changes that the Architecture Engineering and Construction AEC industry may undergo in the coming years and decades The book prompts us to consider simulating events where architecture and architects could mitigate redirect or develop contingencies in relation to the environment flows of material and capital and other things that operate from the immediate through to almost geological timescales From the Foreword by Robert Stuart Smith Director of the Autonomous Manufacturing Lab University of Pennsylvania

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