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**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

**MATHEMATICS PAPER 1
SEPTEMBER 2023**

MARKS: 150

TIME: 3 hours

This question paper consists of 10 pages and a one-page information sheet

Mathematic Paper 2 September 2014 Mpumalanga

M Walker



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Current Perspectives and New Directions in Mechanics, Modelling and Design of Structural Systems Alphose Zingoni, 2022-09-05 Current Perspectives and New Directions in Mechanics Modelling and Design of Structural Systems comprises 330 papers that were presented at the Eighth International Conference on Structural Engineering Mechanics and Computation SEMC 2022 Cape Town South Africa 5 7 September 2022 The topics featured may be clustered into six broad categories that span the themes of mechanics modelling and engineering design i mechanics of materials elasticity plasticity porous media fracture fatigue damage delamination viscosity creep shrinkage etc ii mechanics of structures dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii numerical modelling and experimental testing numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber v innovative concepts sustainable engineering and special structures nanostructures adaptive structures smart structures composite structures glass structures bio inspired structures shells membranes space structures lightweight structures etc vi the engineering process and life cycle considerations conceptualisation planning analysis design optimization construction assembly manufacture maintenance monitoring assessment repair strengthening retrofitting decommissioning Two versions of the papers are available full papers of length 6 pages are included in an e book while short papers of length 2 pages intended to be concise but self contained summaries of the full papers are in this printed book This work will be of interest to civil structural mechanical marine and aerospace engineers as well as planners and architects

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