

QUESTION 12 (18 marks)

Based on the Entity concept parameters detailed below:

IS POWER SUPPLY		IS SOLENOID	
U ₀	11.2V	U ₁	12V
I ₀	2A	I ₁	2.5A
C ₀	15 μ F	C ₁	10 μ F
L ₀	95mH	L ₁	5mH
L/R	50 μ H/10m		

Cable

Cable Parameters are:
 Capacitance = 8 μ F/m
 Inductance = 0.5 μ H/m
 L/R = 80 μ H/10m

- Given the capacitance values for the power supply, cable and solenoid, what will be the maximum permitted cable length? (2 Marks)
- In considering your answer for part a), and the inductance values of each component, what can the maximum length of the cable be? (2 Marks)
- The solenoid is controlled from an output of the relay mounted in the main enclosure on the machine. The output contact of the relay is not shown in the parameter drawing above. Does it need to be considered when evaluating the circuit parameters? (1 Mark)
- What information would you expect to be displayed on the nameplate of the solenoid? (2 Marks)
- The label on the solenoid has "T2" marked on it. What specific installation requirement would have to be in place for this solenoid to be used on a continuous miner? (1 Mark)

Building Science N1 Past Questions Papers

Martin Kossa



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The Arctic in China's National Strategy Martin Kossa, 2024-02-02 This book locates the Arctic within the context of the People's Republic of China's PRC national strategy of the Great Rejuvenation of the Chinese Nation Drawing on a range of sources published in Chinese and English the author analyses Beijing's Arctic scientific activities and technological capabilities including the research infrastructure long term goals and the significance for China's understanding of the region its Arctic identity and international perceptions Examining the region from the perspective of the Comprehensive National Security Outlook developed during the Xi Jinping era the book focuses on military economic technological and political components and considers the PRC's official and academic discourses and the views of the region within bilateral relations with Arctic states outlining a science security and governance nexus in China's Arctic engagement This volume will be of interest to scholars and students of Arctic geopolitics Chinese studies security studies and foreign policy analysis It will also appeal to policymakers and defence analysts in Arctic states and other regional stakeholders Building Services

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