

EOSC 433: OPEN ENDED DESIGN PROBLEM 3 – CROWN PILLAR HEIGHT

Grading Rubric

Name:

	EXCELLENT (90 – 100%)	GOOD (89 – 72%)	SATISFACTORY (71 – 60%)	NEEDS IMPROVEMENT (≤59%)	PTS.
OVERALL CONTENT	Maximum 75%				
INTRODUCTION	Very clearly and concisely: ○ Identifies the problem AND ○ States the purpose of the report	Adequately: ○ Identifies the problem AND ○ States the purpose of the report	Vaguely: ○ Identifies the problem OR ○ States the purpose of the report	Inadequately: ○ Identifies the problem AND ○ States the purpose of the report	
PROJECT DESCRIPTION	Clearly describes the project in detail, taking into account the: ○ Site geology AND ○ Other given parameters	Describes the project in detail, taking into account the: ○ Site geology OR ○ Other given parameters	Describes some details of the project (but misses key aspects) in: ○ Site geology OR ○ Other given parameters	Lacks to describe the project in detail	___/8
MODELING AND INPUT PARAMETERS	Clearly identifies all the information needed to run the model: ○ States and describes the software ○ Designs the model as per project specifications ○ States and briefly <i>justifies</i> all the input parameters (rock mass, elastic/strength properties) ○ Describes any other model assumptions/methods	Identifies the information needed to run the model: ○ States and describes the software ○ Designs the model as per project specifications ○ States and briefly <i>justifies some</i> input parameters (rock mass, elastic/strength properties) ○ Describes some model assumptions/methods	Identifies basic information needed to run the model: ○ States the software used ○ Omits certain parts of the model design as per project specifications ○ <i>Only states</i> the input parameters (rock mass, elastic/strength properties) ○ Does not describe any other model assumptions/methods	Lacks to identify basic information needed to run the model: ○ Does not state the software ○ Does not design the model as per project specifications ○ States a few or no input parameters (rock mass, elastic/strength properties) ○ Does not describe any other model assumptions/methods	___/25
BOUNDARY ELEMENT ANALYSIS AND RESULTS	○ Explains the different k ratios relative to the principal stress orientation ○ Clearly explains the determination of crown pillar height ○ Effectively evaluates the crown pillar height by at least: ▪ Commenting on the SF ▪ Comparing the results from the two k ratios ○ Effectively interprets the critical k ratio	○ Partly explains the different k ratios relative to the principal stress orientation ○ Attempts to explain the determination of crown pillar height ○ Adequately evaluates the crown pillar height by at least: ▪ Commenting on the SF ▪ Comparing the results from the two k ratios ○ Adequately interprets the critical k ratio	○ Vaguely explains the different k ratios ○ Vaguely explains the determination of crown pillar height ○ Vaguely evaluates the crown pillar height by: ▪ Commenting on the SF OR ▪ Comparing the results from the two k ratios ○ Vaguely interprets the critical k ratio	○ Does not explain the different k ratios ○ Does not explain the determination of crown pillar height ○ Evaluates the crown pillar height by: ▪ Commenting on the SF BUT ▪ Only uses one k ratio ○ Does not interpret the critical k ratio	___/30
RECOMMENDATION	Clearly gives a final recommendation AND ○ Acknowledges the limitations of the analysis ○ Recommends other factors to consider for future analysis	Gives a final recommendation BUT misses one of the following: ○ Acknowledges the limitations of the analysis ○ Recommends other factors to consider for future analysis	Only gives a final recommendation based on results	Does not give or clearly state a final recommendation based on the results	___/12

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TECHNICAL COMMUNICATION Maximum 20%						
ORGANIZATION	<ul style="list-style-type: none"> ○ Report is clearly organized in a logical manner ○ Report contains headings and subheadings, which contribute to clarity 	<ul style="list-style-type: none"> ○ Report is adequately organized in a logical manner ○ Report has headings and subheadings 	<ul style="list-style-type: none"> ○ Report is organized but contains some weak sections ○ Report has headings and subheadings 	<ul style="list-style-type: none"> ○ Report is poorly organized ○ Report might have headings and subheadings, but do not contribute to clarity 	___/5	
MECHANICS	<ul style="list-style-type: none"> ○ Well-written. Excellent grammar, spelling, and punctuation ○ All numerical values have the appropriate number of significant figures 	<ul style="list-style-type: none"> ○ Report is easy to read but may contain a few errors in grammar, spelling, and punctuation ○ Most numerical values have the appropriate number of significant figures 	<ul style="list-style-type: none"> ○ Report is somewhat difficult to follow due to errors in grammar, spelling, and punctuation ○ Some numerical values have the appropriate number of significant figures 	<ul style="list-style-type: none"> ○ Report is difficult to follow due to many errors in grammar, spelling, and punctuation ○ All numerical values do not have the appropriate number of significant figures 	___/5	
FIGURES AND TABLES	All figures/tables selected contribute to meaning of the report. Also: <ul style="list-style-type: none"> ○ All tables/figures are legible and well-placed on the page ○ All table/figure captions are descriptive ○ All tables/figures clearly link to the text 	Figures/tables selected generally contribute to meaning of the report, and misses one of the following: <ul style="list-style-type: none"> ○ All tables/figures are legible and well-placed on the page ○ All table/figure captions are descriptive ○ All tables/figures link to the text 	Figures/tables selected slightly contribute to meaning of the report, and misses two of the following: <ul style="list-style-type: none"> ○ All tables/figures are legible and well-placed on the page ○ All table/figure captions are descriptive ○ All tables/figures link to the text 	Figure/tables selected slightly contribute to meaning of the report and misses the following: <ul style="list-style-type: none"> ○ All tables/figures are legible and well-placed on the page ○ All table/figure captions are descriptive ○ All tables/figures link to the text 	___/5	
REFERENCES	<ul style="list-style-type: none"> ○ Report includes relevant references using appropriate format ○ All references are appropriately cited within the text 	<ul style="list-style-type: none"> ○ Report includes some relevant references ○ Might use appropriate format AND/OR citation within the text 	<ul style="list-style-type: none"> ○ References lack appropriate format 	Does not include references (0 points)	___/3	
REPORT PRESENTATION	Report contains a: <ul style="list-style-type: none"> ○ Title page AND		Report contains a: <ul style="list-style-type: none"> ○ Title page OR	Report lacks a (0 points): <ul style="list-style-type: none"> ○ Title page AND	<ul style="list-style-type: none"> ○ Page numbers 	___/2
TA'S DISCRETION Maximum of 5% given for exemplary work and effort						
TOTAL					___/100	

Additional Comments: