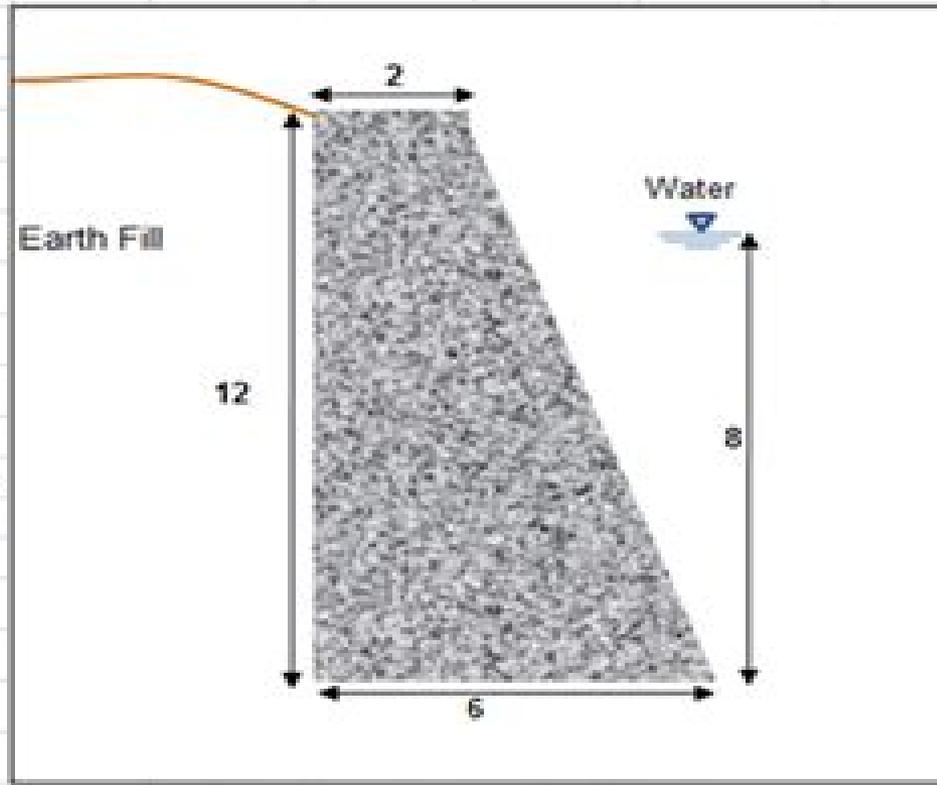


STABILITY ANALYSIS OF GRAVITY RETAINING WALL V 1.1

PROJECT SITE	<i>Retaining wall at Main Lower Swat Canal</i>		
INPUT DATA			
Wall Material	Plum Concrete		
Height of Retaining Wall	H_t	= 12	ft
Top width	T_w	= 2	ft
Bottom width	B_w	= 6	ft
Depth of water	D_w	= 8	
Surcharge load	S_{load}	= 10	psf
Unit Weight of Water	γ_{water}	= 62.4	pcf
Unit Weigh Soil	γ_{soil}	= 110	pcf
Unit Weight of wall material	γ_{stone}	= 145	pcf
Soil friction factor	μ	= 0.566	
Angle of internal friction	ϕ	= 30	degree
DESIGN CALCULATIONS			
Stablizing Force 1	F_{r1}	= 3480.0	lb/ft
Stablizing Force 2	F_{r2}	= 3480.0	lb/ft
Stablizing Force 3	F_{r3}	= 998.4	lb/ft
Moment Arm 1	X_1	= 5	ft
Moment Arm 2	X_2	= 2.67	ft
Moment Arm 3	X_3	= 2.67	ft
Over turning pressure	P_o	= 2680.00	lb
Total wall area	Area	= 48.00	ft ²
Over turning pressure moment	M_o	= 10720.00	lb-ft
Resisting moment	M_r	= 29342.40	lb-ft
FOS aganist overturning	FOS	= 2.74	> 2 Hence OK
FOS aganist Sliding	FOS	= 1.68	> 1.50 Hence OK
Eccentricity Check	e	= 0.324	-B/6<=e<=B/6 Hence OK
<i>(Resultant is in middle one third)</i>			



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J Elliott



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Flower Pollination Algorithm and its Variants Nilanjan Dey, 2021-03-17 This book presents essential concepts of traditional Flower Pollination Algorithm FPA and its recent variants and also its application to find optimal solution for a variety of real world engineering and medical problems Swarm intelligence based meta heuristic algorithms are extensively implemented to solve a variety of real world optimization problems due to its adaptability and robustness FPA is one of the most successful swarm intelligence procedures developed in 2012 and extensively used in various optimization tasks for more than a decade The mathematical model of FPA is quite straightforward and easy to understand and enhance compared to other swarm approaches Hence FPA has attracted attention of researchers who are working to find the optimal solutions in variety of domains such as N dimensional numerical optimization constrained unconstrained optimization and linear nonlinear optimization problems Along with the traditional bat algorithm the enhanced versions of FPA are also considered to solve a variety of optimization problems in science engineering and medical applications *Geosynthetics: Leading the Way to a Resilient Planet* Giovanni Biondi, Daniele Cazzuffi, Nicola Moraci, Claudio Soccodato, 2023-09-15 This volume contains the proceedings of the 12th International Conference on Geosynthetics 12 ICG held in Roma Italy 17 21 September 2023 About 750 Authors Academics Researchers Students Practitioners Contractors and Manufacturers contributed to the peer reviewed papers of this volume which includes the Giroud lecture the Bathurst lecture the Rowe lecture four keynote lectures and 296 technical papers The content of these proceedings illustrates the sustainable use of geosynthetics in a variety of innovative as well as consolidated applications After the sustainability implications in the correct use of geosynthetics the ability to overcome the natural events effects often related to the climate change and to adequately afford the human activities as the increase of pollution forced to refer to a new keyword Resiliency The 12 ICG intends to become the base for the next step hence the conference theme is Geosynthetics Leading the Way to a Resilient Planet The conference topics through general and parallel sessions invited presentations and keynote lectures address the most recent developments in geosynthetic engineering and stimulate fruitful technical and scientific interaction among academicians professionals manufacturers students The 12 ICG proceedings contain a wealth of information that could be useful for researchers practitioners and all those working in the broad innovative and dynamic field of geosynthetics **Japanese Journal of Engineering. Abstracts**

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Table of Contents Civil Engineering Retaining Wall Design Example Gravity

1. Understanding the eBook Civil Engineering Retaining Wall Design Example Gravity
 - The Rise of Digital Reading Civil Engineering Retaining Wall Design Example Gravity
 - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Retaining Wall Design Example Gravity
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Civil Engineering Retaining Wall Design Example Gravity
 - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Retaining Wall Design Example Gravity
 - Personalized Recommendations
 - Civil Engineering Retaining Wall Design Example Gravity User Reviews and Ratings

- Civil Engineering Retaining Wall Design Example Gravity and Bestseller Lists
- 5. Accessing Civil Engineering Retaining Wall Design Example Gravity Free and Paid eBooks
 - Civil Engineering Retaining Wall Design Example Gravity Public Domain eBooks
 - Civil Engineering Retaining Wall Design Example Gravity eBook Subscription Services
 - Civil Engineering Retaining Wall Design Example Gravity Budget-Friendly Options
- 6. Navigating Civil Engineering Retaining Wall Design Example Gravity eBook Formats
 - ePub, PDF, MOBI, and More
 - Civil Engineering Retaining Wall Design Example Gravity Compatibility with Devices
 - Civil Engineering Retaining Wall Design Example Gravity Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Civil Engineering Retaining Wall Design Example Gravity
 - Highlighting and Note-Taking Civil Engineering Retaining Wall Design Example Gravity
 - Interactive Elements Civil Engineering Retaining Wall Design Example Gravity
- 8. Staying Engaged with Civil Engineering Retaining Wall Design Example Gravity
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Civil Engineering Retaining Wall Design Example Gravity
- 9. Balancing eBooks and Physical Books Civil Engineering Retaining Wall Design Example Gravity
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Civil Engineering Retaining Wall Design Example Gravity
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Civil Engineering Retaining Wall Design Example Gravity
 - Setting Reading Goals Civil Engineering Retaining Wall Design Example Gravity
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Civil Engineering Retaining Wall Design Example Gravity
 - Fact-Checking eBook Content of Civil Engineering Retaining Wall Design Example Gravity
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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