

Problem 1 – Mathematics (Analytic Geometry)

Find the distance from the point (5, -3) to the line $7x - 4y - 28 = 0$.

Solution:

$$d = \frac{Ax_1 + By_1 + C_1}{\sqrt{A^2 + B^2}}$$

$$d = \frac{(-) (7x_1 - 4y_1 + 28)}{(-) \sqrt{(7)^2 + (-4)^2}}$$

$$d = \frac{7(5) - 4(-3) - 28}{\sqrt{65}}$$

$$d = 2.36$$



Problem 2 – Mathematics (Analytic Geometry)

Find the area bounded by the line $2x - y + 10 = 0$ and the coordinate axes.

Solution:

$$2x - y + 10 = 0$$

$$\begin{array}{ll} \text{when } x = 0 & y = 10 \\ & x = -5 \end{array}$$

$$A = \frac{5(10)}{2}$$

$$A = 25$$



Analytic Geometry Benchmark 1 2015

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Steel Connection Design by Inelastic Analysis Mark D. Denavit, Ali Nassiri, Mustafa Mahamid, Martin Vild, Halil Sezen, Frantisek Wald, IDEA StatiCa, 2024-10-29 Comprehensive resource on the finite element method in structural steel connection design through verification with AISC 360 provisions *Steel Connection Design by Inelastic Analysis* covers the use of the finite element method in structural steel connection design Verification with AISC 360 provisions is presented focusing on the Component Based Finite Element Method CBFEM a novel approach that provides the global behavior and verification of resistance for the design of structural steel connections This method is essential for fast and practical design and evaluation of connections with different levels of geometry and complexity Detailed modeling and verification examples with references to AISC and other relevant publications are included throughout the text along with roughly 250 illustrations to aid in reader comprehension Readers of this text will benefit from understanding at least the basics of structural design ideally through civil structural or mechanical engineering programs of study Written by a team of six highly qualified authors *Steel Connection Design by Inelastic Analysis* includes information on T stub connections single plate shear connections bracket plate connections beam over column connections and end plate moment connections Bolted wide flange splice connections temporary splice connections and chevron brace connection in a braced frame Brace connections at beam column connection in a braced frame and double angle simple beam to column connections Semi rigid beam to column connections covering code design calculations and comparisons IDEA StatiCa analysis and ABAQUS analysis *Steel Connection Design by Inelastic Analysis* is an authoritative reference on the subject for structural engineers Engineers of Record EORs fabrications specialists and connection designers involved in the structural design of steel connections in the United States or any territory using AISC 360 as the primary design code

Innovations in the Analysis and Design of Marine Structures Yordan Garbatov, C. Guedes Soares, 2025-05-09 *Innovations in the Analysis and Design of Marine Structures* is a collection of papers presented at MARSTRUCT 2025 the 10th International Conference on Marine Structures MARSTRUCT 2025 Lisbon Portugal 20-22 May 2025 The contributions cover a wide range of topics including Loads and load effects Strength assessment Experimental analysis of structures Materials and fabrication of structures Structural design and optimization Structural reliability and safety *Innovations in the Analysis and Design of Marine Structures* is essential reading for academics engineers and professionals involved in the design of marine and offshore structures The *Proceedings in Marine Technology and Ocean Engineering* series is devoted to the publication of proceedings of peer reviewed international conferences dealing with various aspects of Marine Technology and Ocean Engineering The Series includes the proceedings of the following conferences the Marine Structures MARSTRUCT Conferences the Maritime Technology MARTECH Conferences the Renewable Energies Offshore RENEW Conferences the Collision and Grounding of Ships and Offshore Structures ICCGS Conferences and the International Maritime Association of the Mediterranean IMAM Conferences The

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Image Analysis and Processing - ICIAP 2022 Stan Sclaroff, Cosimo Distante, Marco Leo, Giovanni M. Farinella, Federico Tombari, 2022-05-16 The proceedings set LNCS 13231 13232 and 13233 constitutes the refereed proceedings of the 21st International Conference on Image Analysis and Processing ICIAP 2022 which was held during May 23 27 2022 in Lecce Italy The 168 papers included in the proceedings were carefully reviewed and selected from 307 submissions They deal with video analysis and understanding pattern recognition and machine learning deep learning multi view geometry and 3D computer vision image analysis detection and recognition multimedia biomedical and assistive technology digital forensics and biometrics image processing for cultural heritage robot vision etc

Basic Radar Analysis, Second Edition Mervin C. Budge, Shawn R. German, 2020-04-30 This highly anticipated second edition of an Artech House classic covers several key radar analysis areas the radar range equation detection theory ambiguity functions waveforms antennas active arrays receivers and signal processors CFAR and chaff analysis Readers will be able to predict the detection performance of a radar system using the radar range equation its various parameters matched filter theory and Swerling target models The performance of various signal processors single pulse pulsed Doppler LFM NLFM and BPSK are discussed taking into account factors including MTI processing integration gain weighting loss and straddling loss The details of radar analysis are covered from a mathematical perspective with in depth breakdowns of radar performance in the presence of clutter Readers will be able to determine the noise temperature of a multi channel receiver as it is used in active arrays With the addition of three new chapters on moving target detectors inverse synthetic aperture radar ISAR and constant false alarm rate CFAR and new MATLAB codes this expanded second edition will appeal to the novice as well as the experienced practitioner

Geotechnical Slope Analysis Robin Chowdhury, Gautam Bhattacharya, Subhadeep Metya, 2023-11-30 This second edition of Geotechnical Slope Analysis is an updated version of the original scholarly book In this edition concepts and applications have been thoroughly revised In particular the Initial Stress Approach has been extended to 2D problems in a more rigorous manner Additional solved numerical examples have been added in several chapters More importantly the meaning of the results is explored through interpretation The influence of initial stresses pore water pressures and seismic forces has been explored not only on performance indicators such as the Factor of Safety but also on the location of critical slip surfaces In addition to these factors it is shown that the chosen method of analysis may also have a significant influence on the location of the critical slip surface Student exercises have been included in some chapters with a view to encouraging further study and research and

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