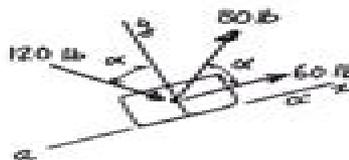


PROBLEM 2.42

For the block of Problems 2.37 and 2.38, determine (a) the required value of α if the resultant of the three forces shown is to be parallel to the incline, (b) the corresponding magnitude of the resultant.

SOLUTION



Select the x axis to be along a' .

Then

$$R_x = \Sigma F_x = (60 \text{ lb}) + (80 \text{ lb})\cos\alpha + (120 \text{ lb})\sin\alpha \quad (1)$$

and

$$R_y = \Sigma F_y = (80 \text{ lb})\sin\alpha - (120 \text{ lb})\cos\alpha \quad (2)$$

(a) Set $R_y = 0$ in Eq. (2).

$$(80 \text{ lb})\sin\alpha - (120 \text{ lb})\cos\alpha = 0$$

Dividing each term by $\cos\alpha$ gives:

$$(80 \text{ lb})\tan\alpha = 120 \text{ lb}$$

$$\tan\alpha = \frac{120 \text{ lb}}{80 \text{ lb}}$$

$$\alpha = 56.310^\circ$$

$$\alpha = 56.3^\circ \blacktriangleleft$$

(b) Substituting for α in Eq. (1) gives:

$$R_x = 60 \text{ lb} + (80 \text{ lb})\cos 56.31^\circ + (120 \text{ lb})\sin 56.31^\circ = 204.22 \text{ lb} \quad R_x = 204 \text{ lb} \blacktriangleleft$$

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2015 — ... Universiti Teknologi Malaysia, 81310, UTM Johor Bahru, Johor Malaysia ... Speed Control of D.C. Motor Using PI, IP, and Fuzzy Controller. Speed control of dc motor using pid controller - Universiti ... Nov 28, 2012 — Speed control of dc motor using pid controller - Universiti Malaysia ... UNIVERSITI TEKNOLOGI MALAYSIA - Universiti Malaysia Pahang. CHAPTER 1 ... Brushless DC Motor Speed Control Using Single Input ... Abstract: Many Industries are using Brushless Direct Current (BLDC) Motor in various applications for their high torque performance, higher efficiency and low ... Design a Speed Control for DC Motor Using an Optimal ... by Al Tajudin · 2022 · Cited by 1 — Abstract—The project purpose to implement Artificial Bee Colony (ABC) algorithm optimization technique for controlling the speed of the DC motor. (PDF) A response time reduction for DC motor controller ... This paper proposes an alternative solution to maximize optimization for a controller-based DC motor. The novel methodology relies on merge proper tuning with ... Modelling and Simulation for Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ... Tomorrow People: Future Consumers and How... by Martin ... Book overview ... The future is a profit stream waiting to happen, but it takes careful observation and anticipation to make it flow your way. This book is a ... Tomorrow People: Future Consumers and How to Read ... Tomorrow People: Future Consumers and How to Read Them: Mapping the Needs and Desires of Tomorrow's Customers Now by Martin Raymond (2003-05-28) [Martin ... The tomorrow people : future consumers and how to read them CONTENTS CI. The Tomorrow People - Tomorrow Happens So You'd Better Be Prepared! A snapshot of tomorrow's consumers; the world they will inhabit; ... Tomorrow People: Future Consumers and How to Read Them Tomorrow People: Future Consumers and How to Read Them. by Mr Martin Raymond. Hardcover, 279 Pages, Published 2003. ISBN-10: 0-273-65957-X / 027365957X Tomorrow People : Future Consumers and How to Read Them ... Webcat Plus: Tomorrow People : Future Consumers and How to Read Them, GET TO KNOW YOUR FUTURE CUSTOMERS "The future is a profit stream waiting to happen, ... The tomorrow people : future consumers and how to read them City Campus Library Floor 4 658.834 RAY; Hide Details. Availability: (1 copy, 1 available, 0 requests). Tomorrow People: Future Consumers and How to Read ... Jan 1, 2003 — Tomorrow People · Future Consumers and How to Read Them ; Tomorrow People · Future Consumers and How to Read Them ; Stock Photo · Cover May Be ... What would you ask tomorrow's consumer today? Oct 20, 2023 — It's clear Sam and

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