

Transposition and Evaluation of Formulae

Transpose and evaluate a complex formula

You must correctly answer the following showing your workings

The general equation for a straight line is:

$$y = mx + c$$

Transpose the formula to make x the subject of the formula

$$y = mx + c$$

$$y - c = mx$$

$$\frac{y - c}{m} = x$$

$$x = \frac{y - c}{m}$$

Evaluate x when $m = 8.5$, $y = 120$ and $c = 75$.

$$x = \frac{y - c}{m}$$

$$x = \frac{(120 - 75)}{8.5}$$

$$x = \frac{45}{8.5}$$

$$x = 5.294 \text{ to 3dp}$$

Common Engineering Formula To Transpose

Emilie Sanchez

A decorative red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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American Council on Education, 2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies Projection Engineering, 1929

Global Navigation Satellite Systems, Inertial Navigation, and Integration Mohinder S. Grewal, Angus P. Andrews, Chris G. Bartone, 2015-03-11 An updated guide to GNSS and INS and solutions to real world GNSS INS problems with Kalman filtering Written by recognized authorities in the field this third edition of a landmark work provides engineers computer scientists and others with a working familiarity of the theory and contemporary applications of Global Navigation Satellite Systems GNSS Inertial Navigational Systems and Kalman filters Throughout the focus is on solving real world problems with an emphasis on the effective use of state of the art integration techniques for those systems especially the application of Kalman filtering To that end the authors explore the various subtleties common failures and inherent limitations of the theory as it applies to real world situations and provide numerous detailed application examples and practice problems including GNSS aided INS tightly and loosely coupled modeling of gyros and accelerometers and SBAS and GBAS Drawing upon their many years of experience with GNSS INS and the Kalman filter the authors present numerous design and implementation techniques not found in other professional references The Third Edition includes Updates on the upgrades in existing GNSS and other systems currently under development Expanded coverage of basic principles of antenna design and practical antenna design solutions Expanded coverage of basic principles of receiver design and an update of the foundations for code and carrier acquisition and tracking within a GNSS receiver Expanded coverage of inertial navigation its history its technology and the mathematical models and methods used in its implementation Derivations of dynamic models for the

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