

PROBLEM 2.44

Two cables are tied together at C and are loaded as shown. Knowing that $\alpha = 30^\circ$, determine the tension (a) in cable AC , (b) in cable BC .

SOLUTION

Free-Body Diagram



Force Triangle



Law of sines:

$$\frac{T_{AC}}{\sin 60^\circ} = \frac{T_{BC}}{\sin 35^\circ} = \frac{6 \text{ kN}}{\sin 85^\circ}$$

(a)

$$T_{AC} = \frac{6 \text{ kN}}{\sin 85^\circ} (\sin 60^\circ)$$

$$T_{AC} = 5.22 \text{ kN} \blacktriangleleft$$

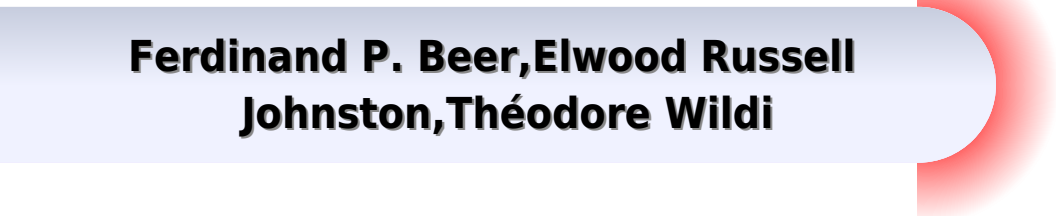
(b)

$$T_{BC} = \frac{6 \text{ kN}}{\sin 85^\circ} (\sin 35^\circ)$$

$$T_{BC} = 3.45 \text{ kN} \blacktriangleleft$$

Solution Manual Vector Statics Beer Johnston

**Ferdinand P. Beer, Elwood Russell
Johnston, Théodore Wildi**



Solution Manual Vector Statics Beer Johnston:

Vector Mechanics for Engineers Ferdinand Pierre Beer, Elwood Russell Johnston, 1972 **Solutions Manual to Accompany Vector Mechanics for Engineers, Statics, Third** Ferdinand P. Beer, Elwood Russell Johnston, Théodore Wildi, 1998 Introduction La statique des particules La statique des corps rigides systemes de forces equivalentes L equilibre des corps rigides Forces reparties centroides et centres de gravite Etudes des structures Forces dans les poutres et les cables Frottement Forces reparties moment d inertie Methode des travaux virtuels **EBOOK: Vector Mechanics for Engineers: Statics (SI units)** Ferdinand Beer, E. Johnston, David Mazurek, 2012-10-16 Target Audience This text is designed for the first course in Statics offered in the sophomore year Overview The main objective of a first course in mechanics should be to develop in the engineering student the ability to analyze any problem in a simple and logical manner and to apply to its solution a few well understood basic principles This text is designed to help the instructor achieve this goal Vector analysis is introduced early in the text and is used in the presentation and discussion of the fundamental principles of mechanics Vector methods are also used to solve many problems particularly three dimensional problems where these techniques result in a simpler and more concise solution The emphasis in this text however remains on the correct understanding of the principles of mechanics and on their application to the solution of engineering problems and vector analysis is presented chiefly as a convenient tool In order to achieve the goal of being able to analyze mechanics problems the text employs the following pedagogical strategy Practical applications are introduced early New concepts are introduced simply Fundamental principles are placed in simple contexts Students are given extensive practice through sample problems special sections entitled Solving Problems on Your Own extensive homework problem sets review problems at the end of each chapter and computer problems designed to be solved with computational software Resources Supporting This Textbook Instructor's and Solutions Manual features typeset one per page solutions to the end of chapter problems It also features a number of tables designed to assist instructors in creating a schedule of assignments for their course The various topics covered in the text have been listed in Table I and a suggested number of periods to be spent on each topic has been indicated Table II prepares a brief description of all groups of problems Sample lesson schedules are shown in Tables III IV and V together with various alternative lists of assigned homework problems For additional resources related to users of this SI edition please visit <http://www.mheducation.asia/olc/beerjohnston> McGraw Hill Connect Engineering a web based assignment and assessment platform is available at <http://www.mhhe.com/beerjohnston> and includes algorithmic problems from the text Lecture PowerPoints an image bank and animations Hands on Mechanics is a website designed for instructors who are interested in incorporating three dimensional hands on teaching aids into their lectures Developed through a partnership between the McGraw Hill Engineering Team and the Department of Civil and Mechanical Engineering at the United States Military Academy at West Point this website not only provides detailed instructions for how to build 3 D teaching tools using materials

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Ferdinand Beer, E. Johnston, David Mazurek, Phillip Cornwell, Brian Self, 2025-11-24 Vector Mechanics for Engineers helps students analyze problems in a simple and logical manner and then apply basic principles to their solutions encouraging a strong conceptual understanding of these basic principles Offering a unified presentation of the principles of kinetics and a systematic problem solving approach the text has proven to be an effective teaching tool especially when paired with the digital resources available in Connect The addition of Case Studies in every chapter are based on actual structures and systems include failures provide students with real world engineering applications And Sample Problems liberally used at the end of each lesson align with the SMART methodology to amplify the neat and orderly work students should cultivate in their own solutions [Solutions Manual to Accompany Vector Mechanics for Engineers](#) Ferdinand Pierre Beer, Elwood Russell

Johnston, 1963 *Ebook: Vector Mechanics for Engineers: Statics and Dynamics* BEER, 2010-10-16 Ebook Vector Mechanics for Engineers Statics and Dynamics *Solutions Manual to Accompany Vector Mechanics for Engineers*, 1996

Canadiana, 1991-05 [Solutions Manual to Accompany Vector Mechanics for Engineers](#) Ferdinand Pierre Beer, Elwood Russell Johnston, 1977 **Laminar Composites** George Staab, 1999 Introduction to Composite Materials Review of stress

Strain and Material Behavior Lamina Analysis Mechanical Test Methods for Lamina Failure Theories Laminate Analysis Appendix A B C D Glossary

The Top Books of the Year Solution Manual Vector Statics Beer Johnston The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Solution Manual Vector Statics Beer Johnston : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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web elements in the second row of the periodic table place their electrons in the $2n$ shell as well as the $1n$ shell for instance lithium li has three electrons two fill the $1s$ orbital and the third is placed in the $2s$ orbital giving an electron configuration

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web predictions from reliable sources have been used for these elements grayed out electron numbers indicate subshells filled to their maximum bracketed noble gas symbols on the left represent inner configurations that are the same in each period written out these are $he\ 2$ helium $1s^2$ $ne\ 10$ neon $1s^2\ 2s^2\ 2p^6$

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