

McGraw Hill Engineering



Powered by Connect Engineering, McGraw Hill's resources are designed to help students achieve success in a click. Resources are powered by Connect for Engineering, an easy-to-use learning platform that gives instructors access to engaging, assignable and assessable tools. All of these tools are tied to learning objectives that support student success and help students develop positive learning behaviors.



TABLE OF CONTENTS

Engineering Titles with Connect	2
Connect	6
SmartBook	8
Connect Reports	9
Training Opportunities	10



Engineering Titles with Connect

Engineering Mechanics



STATICS DYNAMICS

Vector Mechanics for Engineers: Statics and Dynamics, 12e (Connect Updates Fall 2021) Ferdinand Beer E. Russell Johnston, Jr. David Mazurek Phillip Cornwell Brian Self



Engineering Mechanics: Statics and Dynamics, 2e (*3e publishing Spring 2022*) Michael Plesha Gary Gray Francesco Costanzo



Vector Mechanics for Engineers: Statics, 12e (Connect Updates Fall 2021) Ferdinand Beer E. Russell Johnston, Jr. David Mazurek



Engineering Mechanics: Statics, 2e (3e publishing Spring 2022) Michael Plesha Gary Gray Francesco Costanzo



Vector Mechanics for Engineers: Dynamics, 12e (Connect Updates Fall 2021) Ferdinand Beer E. Russell Johnston, Jr. Phillip Cornwell Brian Self



Engineering Mechanics: Dynamics, 2e (3e publishing Spring 2022) Michael Plesha Gary Gray Francesco Costanzo



Mechanics of Materials, 8e Ferdinand Beer E. Russell Johnston, Jr. John DeWolf David Mazurek



Statics and Mechanics of Materials, 3e Ferdinand Beer E. Russell Johnston, Jr. John DeWolf David Mazurek

Aeronautical Engineering



Fundamentals of Aerodynamics, 6e John Anderson



Introduction to Flight, 9e John Anderson

Engineering & Computer Science



Thermal and Fluids Engineering



Fluid Mechanics: Fundamentals and Applications, 4e Yunus Cengel John Cimbala



Heat and Mass Transfer: Fundamentals and Applications, 6e Yunus Cengel Afshin Ghajar



Fundamentals of Thermal-Fluid Sciences, 6e Yunus Cengel Robert Turner John Cimbala



Thermodynamics: An Engineering Approach, 9e Yunus Cengel Michael Boles



Fluid Mechanics, 9e Frank M. White



Viscous Fluid Flow, 4e Frank M. White Joe Majdalani

Mechanical Engineering



Introduction to Mechatronics and Measurement Systems, 5e David G. Alciatore Micheal B. Histand



Shigley's Mechanical Engineering Design, 11e Richard Budynas Keith Nisbett



System Dynamics, 4e William Palm III



Foundations of Materials Science and Engineering, 6e (7e publishing Spring 2022) William F. Smith Javad Hashemi

Engineering & Computer Science



Electrical Engineering



Fundamentals of Electric Circuits, 7e Charles Alexander Matthew Sadiku



Microelectronic Circuit Design, 5e Richard Jaeger Travis Blalock



Engineering Circuit Analysis, 9e William Hayt Jack Kemmerly Jamie Phillips Steven Durbin



Signals and Systems: Analysis Using Transform Methods & MATLAB, 3e M.J. Roberts



Principles and Applications of Electrical Engineering, 7e Giorgio Rizzoni James Kearns



Fundamentals of Electrical Engineering, 2e Giorgio Rizzoni James Kearns

General Engineering



Fundamentals of Solid Modeling and Graphics Communication, 7e Gary Bertoline Eric Wiebe Nathan Hartman William Ross



Introduction to Graphics Communications for Engineers, 5e Gary Bertoline



MATLAB for Engineering Applications, 4e (5e publishing Spring 2022) William Palm III



Engineering Fundamentals and Problem Solving, 7e (8e publishing Spring 2022) Arvid Eide Roland Jenison Larry Northup Steven Mickelson



Foundations of Engineering, 2e (3e publishing Spring 2022) Mark Holtzapple W. Dan Reece



Technical Writing for Engineers, 3e (4e publishing Spring 2022) Leo Finkelstein

Engineering & Computer Science



Industrial Engineering



Statistics for Engineers and Scientists, 5e William Navidi



Engineering Economy, 8e Leland Blank Anthony Tarquin



Principles of Statistics for Engineers and Scientists, 2e William Navidi



Basics of Engineering Economy, 3e Leland Blank Anthony Tarquin



Technology Ventures: From Idea to Enterprise, 5e Thomas H. Byers Richard C. Dorf Andrew J. Nelson



Simulation with Arena, 6e W. David Kelton Randall Sadowski Nancy Zupick

Numerical Methods



Additional Titles

Applied Numerical Methods with MATLAB for Engineers and Scientists, 4e (5e publishing Spring 2022) Steven Chapra



Numerical Methods for Engineers, 8e Steven Chapra Raymond Canale



New! Numerical Methods with Python, 1e Steven Chapra David Clough



Software Engineering: A Practitioner's Approach, 9e Roger Pressman Bruce Maxim



Introduction to Chemical Engineering Thermodynamics, 9e J.M. Smith Hendrick Van Ness Michael Abbott, Mark Swihart



New! Ethics in Engineering, 5e Mike Martin



What is Connect?

Connect is a course management and adaptive learning solution that enhances your unique voice and teaching style. Its flexibility allows you to create, edit, upload, share, and adjust materials to meet your needs. Connect also integrates with the three major learning management systems: Blackboard, D2L, and Canvas. We work to give you and your students access to registration, attendance, assignments, grades, and course resources in real time, in one location.

connect

Support at Every Step

- Seamless LMS integration
- Training
- In-product help and tutorials
- 1:1 or group help

Robust Analytics & Reporting

- Easy-to-read reports
- Individual and class performance reports
- Auto grading

Quality Content & Learning Resources

- Remote proctoring
- eBooks available offline
- Easy course sharing
- Lecture capture

Homework & Adaptive Learning

- Curated question banks
 Auto-graded with feedback
- Writing Assignment/Rubric Tool
- SmartBook 2.0–Adaptive Reading
- Time-saving tools
- Customized to individual needs
- Algorithmic questions
- Ability to add your own questions
- Free Body Diagram Tool (select titles)
- Activity-Based Assignments (select titles)

Using Connect/SmartBook has improved my course by providing students with guided reading that helps them with the assigned practice problems.



-Circuits Professor, Virginia State University

Trade & Technical





www.mheducation.com/highered/explore/affordability-outcomes.html

What is Math Prep for Statics?

We know that you welcome a group of students with a wide range of pre-requisite knowledge. ALEKS Math Prep for Statics is designed to support this challenge. ALEKS is a mastery-based learning platform that identifies what your students know, what they don't know, and what they are ready to learn.

Why does ALEKS Math Prep for Statics work?

Fields of mathematical knowledge have a logical structure. ALEKS uses this knowledge structure to make inferences about what a student knows and doesn't know. Based on ALEKS' knowledge check assessment, ALEKS will recognize each student's unique knowledge state. ALEKS guides students on the most efficient path through the knowledge structure by targeting their individual needs for instruction. It does not rely on a student self-evaluation nor a one-size-fits-all model. Rather, ALEKS uses a unique cycle of learning and assessment to keep each student on the right path.

What topics are covered in ALEKS Math Prep for Statics?

The knowledge structure of ALEKS Math Prep for Statics has more than 130 topics. These topics will review concepts from statics and present mathematical material for statics.



What is SmartBook?

Available within McGraw Hill Connect, SmartBook[®] makes study time as productive and efficient as possible. It identifies and closes knowledge gaps through a continuallyadapting reading experience. The student's knowledge and self-reported confidence enables SmartBook to provide each student with long-term retention solutions. Focusing on closing knowledge gaps and long-term retention ensures that every minute spent with SmartBook is returned to the student as a value-added minute.

	Yellow highlighting
Rigid body analysis rests on the fundamental assumption that the effect of a given force on a body remains unchanged if that force is moved	provides students
O perpendicular to its line of action	with just-in-time
O perpendicular to the axis of rotation	loarning focusing
O along the axis of symmetry	learning, locusing
O along the line of action	on the critical
	concepts and topics
⊙ Need help? Review these concept resources.	within the chapter
Read About the Concept	within the endpter.
Rate your confidence to submit your answer. High Medium Low	Reading
Consult Consul	▲ ★ And Characterization of the second s
	ed among the external forces acting on the truck.
knowledge and confidence,	
and hone in on the concepts	
they don't understand to	ing on a truck with a rope; (b) free-body diagram of the truck, shown as a rigid body instead of a particle. e rope exert the force F. The point of application of F is on the front bumper. The force F tends to make Page 83
improve their performance	

SmartBook made it easy for me to learn the concepts and gave me the confidence I needed to understand and complete the Connect homework problems.

–Naazneen Ibtehaj, Biomedical Engineering Student, University of Texas at Austin

Engineering & Computer Science



What are Connect Reports?

Student Performance

Connect Reports keep instructors informed about how each student, section, and class is performing, allowing for more productive use of lecture and office hours. Instructors have the ability to assess and analyze students' progress on assignments throughout the term, seamlessly and with ease.



Support at Every Step



SupportAtEveryStep.com is your one stop shop to find contact information for our live support teams and key self-service resources for everything from decision-making resources, class prep, first-day-of-class, tips for the classroom and more. Whether you use the text alone or one of our award-winning digital courseware products, you'll find what you need at SupportAtEveryStep.com.



Just getting started? Want to take it to the next level? Either way, your dedicated McGraw Hill Implementation Consultant can help you build your course, create assignments and set policies. Need help with reports or adjusting your course to improve outcomes? Click on "Courseware Consult" at SupportAtEveryStep.com and set up an appointment today.



Need a reality check? Having a direct line to an instructor who's been in your shoes can make all the difference. That's why we have over 600 faculty consultants across the country to share their experiences and provide personalized guidance.



How can we help? No matter your tech questions, the McGraw Hill Tech Support Group is ready to help with a searchable database of FAQs and live support for you and your students. Reach out at (800) 331.5094, or connect online by going to SupportAtEveryStep.com and selecting "Tech Support."

Engineering & Computer Science







Upon selecting McGraw Hill products for your course, you will receive the following commitment to you and your students needs.

Instructor Training Needs

Training on Connect Engineering is conducted by webinar, as well as on campus, depending on instructional needs and desires.

- Your Implementation Team is dedicated to efficient implementation of Connect Engineering and SmartBook.
- Your Digital Faculty Consultants, current Engineering instructors using Connect, are available for best practices discussions.

Student Training Needs

- McGraw Hill can conduct "First Day of Class" student trainings to ensure that students access and navigate Connect Engineering effectively as well as efficiently.
- McGraw Hill offers mid-semester student trainings and videos to help them utilize reporting features to build more effective study habits.
- Customer Service is available regularly, including during non-traditional business hours (e.g., Sunday evenings). Hours and Personnel are heightened during rush times, such as registration and finals, and this will continuously be monitored for times of greater need.

Support Commitment

- McGraw Hill provides on-going support for Connect Engineering and all digital resources that accompany our programs for the life of the adoption. You can expect unparalleled service from our full national sales, marketing and editorial teams.
- We guarantee a 24-hour response time to any questions, needs or issues which might arise throughout the life of the adoption.

Desk Copy Commitment

• McGraw Hill provides instructor desk copies for all instructors.

McGraw Hill is proud to sponsor two prestigious ASEE awards:

ASEE Mechanics Division Beer and Johnston New Educator Awards ASEE Engineering Technology Council, James H. McGraw Award

Engineering & Computer Science