



## EVERGREEN 2024 RELEASE NOTES

### - New and Updated Content - Cengel, Fluid Mechanics



**Release Overview:** Changes were motivated by advice from reviewers and users of the textbook; text was also revised to comply with art accessibility and inclusion and diversity guidelines. The word *velocity* is edited throughout the book. *Velocity* is used when it is a vector and *speed* is used when talking about the magnitude of velocity, which is a scalar. Application-Based Activities were added to give students further practice on key topics where students typically struggle. To receive these updates, duplicate/copy your section on or after the upcoming release date.

DIGITAL CONTENT			
	Question Bank <i>NEW and UPDATED assessments have been tagged in Connect for easy filtering.</i>	Instructor Resources	Application-Based Activities (ABAs)
<b>LOCATION OF UPDATED CONTENT IN CONNECT</b>	Assignments tab > Add Assignment > Question Bank	Library tab > instructor resources	Assignments tab > Add Assignment > Application-Based Activity
<b>Updates Made</b>	The question bank content has been thoroughly reviewed for appropriate numeric tolerance, formatting, tagging, and overall consistency (including the use of <i>velocity</i> throughout). Those that were updated are tagged as “Updated 2024” in the question bank filter. See <a href="#">Question Bank Content Map</a> for more details.	Updates to Lecture PPTs, Solutions Manual, and Image Library have been made based on updates to the narrative.	9 Application-Based Activities have been added: <ul style="list-style-type: none"> <li>• Conservation of Energy (Chapters 1 and 5)</li> <li>• Pressure Distribution Tank (Chapter 3)</li> <li>• Conservation of Energy and Energy Conversion Efficiencies (Chapters 3 and 5)</li> <li>• Static Pressure and Static Fluids (Chapter 5)</li> <li>• Conservation of Mass-Density Changes (Chapter 5)</li> <li>• Conservation of Mass-Cross-sectional Area (Chapter 5)</li> <li>• Major and Minor Losses in Pipes (Chapters 5 and 8)</li> <li>• Simplification of the Navier Stokes Equations: A Smart Shock Absorber (Chapters 9 and 10)</li> <li>• Approximate Solutions of Navier Stoke Equation (Chapters 9 and 10)</li> </ul>

<b>GLOBAL INFORMATION FOR QUESTION BANKS</b>	<ul style="list-style-type: none"> <li>• <b>New Accessibility Filter.</b> Experience a simpler way to be mindful of accessibility as you create question bank assignments. New filter options make it easy to ensure all questions in your assignment work well with screen readers; can be used with keyboard only; have accessible audio, video, and images; and more. Use the “Screen Reader/Keyboard/CC” filter to find only accessible questions and the “Screen Reader/Keyboard/CC/AD-Vids described” filter to find accessible questions that also come with text descriptions of any videos that are included.</li> <li>• <b>Note on Deleted Questions.</b> While we attempted to avoid deleting assessment questions so as not to disrupt existing users, at times it is unavoidable. In these cases, the deleted question will remain in your assignment if previously assigned, but is no longer supported by McGraw Hill and won’t receive future updates or corrections. We have called out the specific questions that have been deleted in these release notes, but the choice to remove the question from your existing assignments is yours.</li> <li>• <b>File Upload Questions.</b> To improve user experience, manually graded File attachment questions have been removed from Section break question types and added as independent questions. This allows the manually graded File attachment items to be assigned separately from auto-graded parts. Instructors will need to delete the File attachment questions from each Section break and add each independent question as desired. Please refer to the Content Map for more details.</li> </ul>
<b>READING/ADAPTIVE CONTENT – eBook, SmartBook, Print</b>	
<b>LOCATION OF UPDATED CONTENT IN CONNECT</b>	eBook on Connect home page AND Assignments tab > Add Assignment > Reading Assignment & SmartBook 2.0
<b>Chapter</b>	<b>Content Changes</b>
<b>Chapter 1 – INTRODUCTION AND BASIC CONCEPTS</b>	<ul style="list-style-type: none"> <li>• In Sec. 1-6, recent new definitions of kilogram, mole, ampere, and kelvin in the 26th General Conference on Weights and Measures in 2018 are incorporated.</li> <li>• Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> <li>• Some images and photos were updated to offer more diversity.</li> <li>• Removed use of gender binaries based on McGraw Hill’s diversity and inclusion initiative.</li> </ul>
<b>Chapter 2 – PROPERTIES OF FLUIDS</b>	<ul style="list-style-type: none"> <li>• Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> </ul>
<b>Chapter 3 – PRESSURE AND FLUID STATICS</b>	<ul style="list-style-type: none"> <li>• An alternative method for rigid body acceleration has been added; this method, utilizing a modified gravity vector, is often much easier for students to understand and apply.</li> <li>• Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> <li>• Some images and photos were updated to offer more diversity.</li> </ul>
<b>Chapter 4 – FLUID KINEMATICS</b>	<ul style="list-style-type: none"> <li>• Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> <li>• Line graphs were updated so color is not the only way to differentiate each line.</li> </ul>
<b>Chapter 5 - BERNOULLI AND ENERGY EQUATIONS</b>	<ul style="list-style-type: none"> <li>• Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> </ul>

<b>Chapter 6 - MOMENTUM ANALYSIS OF FLOW SYSTEMS</b>	<ul style="list-style-type: none"> <li>Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> </ul>
<b>Chapter 7 - DIMENSIONAL ANALYSIS AND MODELING</b>	<ul style="list-style-type: none"> <li>Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> </ul>
<b>Chapter 8 - INTERNAL FLOW</b>	<ul style="list-style-type: none"> <li>Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> </ul>
<b>Chapter 9 - DIFFERENTIAL ANALYSIS OF FLUID FLOW</b>	<ul style="list-style-type: none"> <li>Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> <li>Line graphs were updated so color is not the only way to differentiate each line.</li> <li>Some images and photos were updated to offer more diversity.</li> </ul>
<b>Chapter 10 - APPROXIMATE SOLUTIONS OF THE NAVIER– STOKES EQUATION</b>	<ul style="list-style-type: none"> <li>Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> <li>Some images and photos were updated to offer more diversity.</li> </ul>
<b>Chapter 11 - EXTERNAL FLOW: DRAG AND LIFT</b>	<ul style="list-style-type: none"> <li>In Sec. 11-6, a curve-fit equation for sphere drag coefficient, generated by Faith A. Morrison, Michigan Technological University, has been added.</li> <li>Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> <li>Some images and photos were updated to offer more diversity.</li> </ul>
<b>Chapter 12 - COMPRESSIBLE FLOW</b>	<ul style="list-style-type: none"> <li>Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> </ul>
<b>Chapter 13 - OPEN-CHANNEL FLOW</b>	<ul style="list-style-type: none"> <li>Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> </ul>
<b>Chapter 14 - TURBOMACHINER Y</b>	<ul style="list-style-type: none"> <li>In Sec. 14-2, the subsection on pump cavitation and net positive suction head has been enhanced and updated to terminology commonly used in the pump industry.</li> <li>Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> </ul>
<b>Chapter 15 - INTRODUCTION TO</b>	<ul style="list-style-type: none"> <li>Color contrast was changed in images that include colored arrows and blue/red text per the latest WCAG AA standards.</li> <li>Line graphs were updated so color is not the only way to differentiate each line.</li> </ul>

<b>COMPUTATIONAL FLUID DYNAMICS</b>	
<b>GENERAL NOTES</b>	
<b>Accessibility</b>	McGraw Hill is committed to aligning our digital solutions to WCAG AA standards. Our Voluntary Product Accessibility Templates (VPATs) are available upon request. Any additional questions related to the accessibility of a product can be directed to your Learning Technology Representative, or you may contact us at <a href="mailto:accessibility@mheducation.com">accessibility@mheducation.com</a>
<b>Implementation and Training Support</b>	Your dedicated McGraw Hill Customer Success Teams can help you update your course and assignments and set policies. Need help with reports or adjusting your course to improve outcomes? No problem, they can help with that too! Have your rep introduce you to your Customer Success Representative or use the link below to schedule your personal 1-to-1 Course Consultation. <a href="https://mheimplementationteam2.as.me/schedule.php">https://mheimplementationteam2.as.me/schedule.php</a>
<b>Tech Support</b>	Don't become tech support. Ask students to call McGraw Hill's CXG support team at 1-800-331-5094 or contact us by visiting <a href="http://mpss.mhhe.com/contact.php">http://mpss.mhhe.com/contact.php</a> . They should only come to you with a CXG ticket # in hand so you may follow up. Always make assignments due during tech support hours so students are always able to get their issues resolved before the due date.
<b>LMS Integration</b>	We support LTI-compliant LMSes with Single Sign-On, Deep Linking, and Grade Syncing for the following LMS systems: Blackboard, Brightspace, Canvas, Moodle, Sakai. <a href="https://www.mheducation.com/highered/lms-integration.html">https://www.mheducation.com/highered/lms-integration.html</a>
<b>Connect Support Tools and Best Practices</b>	Assign a variety of Connect assignments to your students and make their performance part of their final course grade (minimum of 10–15% to encourage student compliance). Visit this link below to see additional student engagement tips. <a href="https://www.mheducation.com/highered/support/connect.html">https://www.mheducation.com/highered/support/connect.html</a>
<b>New Connect Updates</b>	A new, streamlined instructor experience is available in Connect. It includes the ability to add additional instructors (and other roles!) to any section, an updated section dashboard with new data visualization, and mobile optimization, with automatic resizing and redistribution of screen space for tablets and smartphones. This experience continues to be improved based on your feedback so let us know how we're doing! Click here to see the most recent updates: <a href="https://www.mheducation.com/highered/connect/new-releases.html">https://www.mheducation.com/highered/connect/new-releases.html</a>
<b>Connect Polling Tool</b>	Engage students with the Connect Polling tool, which allows you to discover where your students are in real time. Help them create connections with your course content while gaining valuable insight during lecture, then leverage polling data to deliver personalized instruction when and where it is needed most.
<b>Writing Assignments</b>	Help students improve their conceptual understanding and written communication skills with Writing Assignments. Integrate writing skill development into your course with ease and help your students gain the critical writing skills they need for success now and beyond. Assign, monitor, mark, and provide feedback all in one place. All Connect courses now have Writing Assignments with peer review, originality checker, and grammar checker.* *Engineering, music, and world languages will not have originality or grammar checker due to special characters.