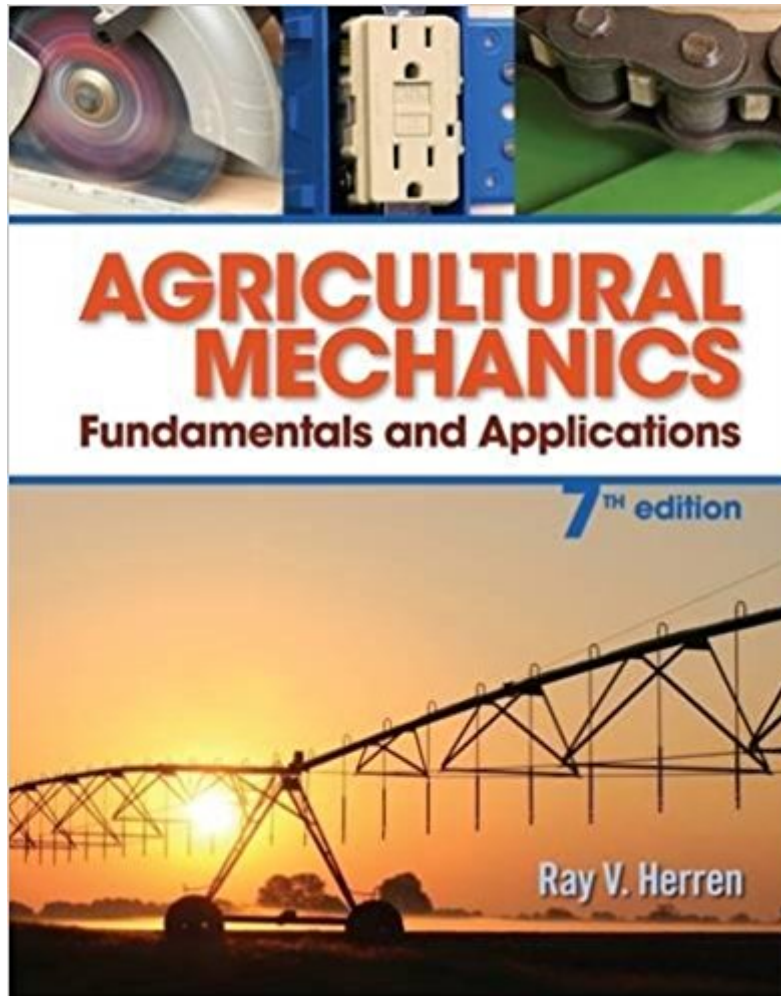




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Agricultural Mechanics: Fundamentals & Applications



Synopsis

This trusted text provides a thorough introduction to agricultural mechanics, covering fundamental mechanical and engineering theory, common tools and materials, and a wide range of practical applications. Units explore essential topics such as career opportunities, shop orientation and procedures, woodworking and metal working, tool fitting, project planning, cutting and welding, paints and paint application, power mechanics, electrical wiring, plumbing, hydraulics, concrete and masonry, and agricultural structures. Safety is also emphasized strongly throughout the text, both within each chapter and in a dedicated unit. To engage today's students and make even complicated principles easier to apply, the text features abundant, full-color images, illustrations, charts, and data tables, as well as detailed drawings of over 50 complete project plans. More than 300 of these visuals have been added or updated for the Seventh Edition, which also boasts a suite of dynamic digital teaching resources, such as an online Coursemate with lecture materials, videos, interactive quizzes, and more. The new edition also includes updates to reflect the latest innovations in materials, machinery, and methods, providing a current and comprehensive guide to help students plan and execute agricultural projects effectively.

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"I think the text is written very well. The terminology is well explained and the information is clear and concise. The text flows in a logical order covering new information and using old information reinforce the understanding."

Dr. Ray V. Herren has been actively involved in agriculture for most of his life. He grew up on a diversified farm, where he played a major role in the production of livestock. He obtained a bachelor of science degree in agricultural education from Auburn University, a master's degree in agribusiness education from Alabama A & M, and a doctorate in vocational education (with an emphasis in agricultural education) from Virginia Polytechnic Institute and State University. Dr. Herren has taught at Gaylesville High School, Virginia Tech, Oregon State University, and the University of Georgia in Athens, where he recently retired as head of the Department of Agriculture Leadership, Education, and Communication. In addition to serving as national president in the Future Farmers of America (FFA) alumni organization, he has served on numerous committees from the local to international level, including a national task force to develop FFA programs for middle school and the national committee for career development events. His prolific scholarly activity includes 26 journal articles, 51 invited or refereed presentations, and 12 books and manuals. He has also earned several awards for his commitment to service, including induction into the Georgia Agricultural Teacher Hall of Fame and UGA's prestigious College of Education Outstanding Teaching Award.

In depth details of electrical wiring, carpentry, motors and engines. The class used less than half the book material but I reference it on my farm all the time.

exactly what I needed!

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