



New Edition of Textbook on Applied Mechanics

Wiley has released *Energy Principles and Variational Methods in Applied Mechanics, Third Edition*, by J.N. Reddy. This book provides a systematic, highly practical introduction to the use of energy principles, traditional variational methods, and the finite element method for the solution of engineering problems involving bars, beams, torsion, plane elasticity, trusses, and plates. It begins with a review of the basic equations of mechanics, the concepts of work and energy, and key topics from variational calculus. It presents virtual work and energy principles, energy methods of solid and structural mechanics, Hamilton's principle for dynamical systems, and classical variational methods of approximation. And it takes a more unified approach than that found in most solid mechanics books, to introduce the finite element method.

Featuring more than 200 illustrations and tables, this *Third Edition* has been extensively reorganized and contains much new material, including a new chapter devoted to the latest developments in functionally graded beams and plates. www.wiley.com



An Interview with Dan Guerrero

The American Aerospace Technical Academy (AATA) has posted a new video to their NDT Video Library (hosted on YouTube). The video is an interview with Dan Guerrero, the CEO and radiographic testing/digital Level III, NAS 410 at Willick Engineering Company, Inc. The video is part of the series "NDT Talks," which focuses on career advice and mentorship for NDT professionals. In the video, Guerrero is interviewed by AATA instructor Pratik Wagh. The conversation covers Guerrero's origins in the NDT industry and at Willick Engineering, through his trajectory to eventually becoming CEO of the company. Guerrero offers career advice for NDT professionals based on his experience, including his thoughts on the value of education. He also talks about some of the most interesting work he has done in his position, including projects in industries as diverse as space exploration, archeology, and art.

www.aatatraining.org ●

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ASNT's Standards Development Committee (SDC) develops ASNT's standards, including *ANSI/ASNT CP-106: Nondestructive Testing — Qualification and Certification of Personnel*, *ANSI/ASNT CP-105: ASNT Standard Training Outlines of Nondestructive Testing Personnel*, *ANSI/ASNT CP-189: ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel and ANSI/ASNT ILI-PQ: In-line Inspection Personnel Qualification and Certification*.

If you wish to join the SDC and participate in the development of American National Standards, contact SDC Secretary Charles Longo at clongo@asnt.org. More information is available at www.asnt.org/publications/standards/standards.htm.

Write Us

Back to Basics Articles Needed

Materials Evaluation is soliciting submissions for its "Back to Basics" department. "Back to Basics" are tutorial articles written to introduce the reader to the fundamentals of an NDT method, application, or technology, or to act as a refresher for those already experienced in the subject. Articles or ideas may be sent to: *Materials Evaluation*, ASNT, 1711 Arlingate Lane, P.O. Box 28518, Columbus, OH 43228-0518; (800) 222-2768 X224; fax (614) 274-6899; e-mail jross@asnt.org.