Contents

Articles

2 Advancing Diagnostic Skills for Technology and Engineering Undergraduates: A Summary of the Validation Data
W. Tad Foster, A. Mehran Shahhosseini, & George Maughan

19 Use of Dynamic Visualizations for Engineering Technology, Industrial Technology, and Science Education Students: Implications on Ability to Correctly Create a Sectional View Sketch
Petros Katsioloudis, Daniel Dickerson, Vukica Jovanovic, & Mildred V. Jones

37 Engineering’s Grand Challenges: Priorities and Integration Recommendations for Technology Education Curriculum Development
Jennifer Buelin, Aaron C. Clark, & Jeremy V. Ernst

53 Changes in Attitudes Toward Craft and Technology During the Last 20 Years
Ossi Autio

Book Review

71 Expanding Underrepresented Minority Participation: America’s Science and Technology Talent at the Crossroads
Zenora Spellman

Miscellany

77 Scope of the JTE
Editorial Review Process
Manuscript Submission Guidelines
Subscription Information
JTE Co-sponsors and Membership Information
JTE Editorial Review Board
Electronic Access to the JTE