



In This Issue – Technically 2

Articles

- ◆ **Fly-by-Wire T&E Challenge** 3
L.D. Alford, Jr.
- ◆ **Fiber Optic Fence Sensor Developments** 8
M.C. Maki & J.K. Weese
- ◆ **Open Architecture-Based Factory Automation Systems** 14
L. Wang
- ◆ **Comments on “Energy Sources for the World’s Post-Petroleum Era”
with Author’s Reply** 18
J. Spengler / H. Oman
- ◆ **Self-Discharge Losses in Lithium-Ion Cells** 19
A.H. Zimmerman

Conference Reports

- ◆ **Radar “Down Under”** 25
D. Sinnot
- ◆ **IRS 2003: International Radar Symposium in Dresden, Germany** 31
H. Rohling
- ◆ **Position, Location & Navigation Symposium (PLANS)** 33
R. Schroer
- ◆ **Security Technology Progress (Carnahan)** 35
H. Oman

Correspondence **Inside front cover**

Columns

- ◆ **Our Education Efforts – Paul E. Gartz** 41
- ◆ **New Faces of Engineering Spotlighted – Elizabeth H. Hirt** 41

News & Information

- IEEE AESS Organization 42
- SPB – IEEECON ‘04 in St. Petersburg 43
- Distinguished Lecturers 44
- 2004 Aerospace Conference at Big Sky 45
- Board of Governors Nominations Solicited 45
- Dennis J. Picard Medal Nominations Solicited 45
- Digital Avionics Systems Conference 2004 46
- Membership Application 48
- Directory **Inside Back Cover**
- Meetings **Back Cover**