

InsideGNSS

GPS | GALILEO | GLONASS | BEIDOU

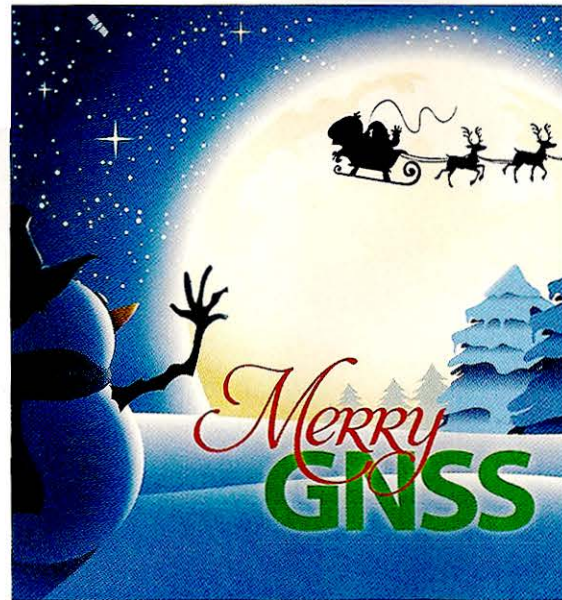
TECHNICAL ARTICLES

38 Reliable GPS-Based Timing for Power Systems

A Multi-Layered, Multi-Receiver Architecture

Liang Heng, Daniel Chou, and Grace Xingxin Gao

Researchers from the University of Illinois at Urbana-Champaign are testing a multi-layered, multi-receiver architecture that protects GPS-based timing against jamming, spoofing, and receiver malfunctions. The results, so far, are good.



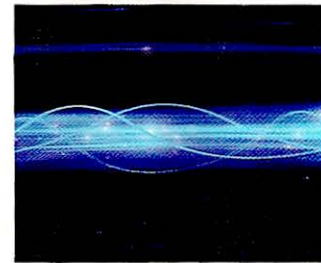
Cover design created by Christine Waring

46 Evaluating the Performance of Navigation Payloads

The Error Vector Magnitude/Code Tracking Error Relationship

Dhaval Upadhyay, Himani Bahuguna, and Pravin Patidar

Engineers at the Indian Space Research Organization show that a code tracking error varies linearly with error vector magnitude, a parameter to quantify various impairments of a satellite's navigation payload.

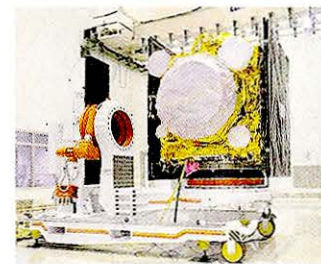


52 Tracking IRNSS Satellites

for Multi-GNSS Positioning in Finland

Sarang Thombre, Mohammad Zahidul H. Bhuiyan, Stefan Söderholm, Martti Kirkko-Jaakkola, Laura Ruotsalainen, and Heidi Kuusniemi

A team of Finnish researchers describe the results of a recent successful campaign to track signals from the Indian Regional Navigation Satellite System now under development.



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EU and Russia: Lost in Space?

Peter Gutierrez

