Author Index,[1] 1999

The Telecommunications and Mission Operations Progress Report

42-137, January–March 1999
42-138, April–June 1999
42-139, July–September 1999
42-140, October–December 1999

Agan, M.

42-138   Micro Communications and Avionics Systems First Prototype (MCAS1): A Low Power,
Low Mass In Situ Transceiver, pp. 1–35.

See Satorius, E.

Ahlstrom, Jr., H. G.

42-139   Modifications of the Torque-Bias Profile for Improved Tracking of Beam-Waveguide Antennas,
pp. 1–17.

See Gawronski, W.

Baher, F.

42-139   Azimuth-Track-Level Compensation to Reduce Blind-Pointing Errors of the Beam-Waveguide
Antennas, pp. 1–18.

See Gawronski, W.

---

[1] In the case of joint authorship, the reader is referred to the citation under the first author, where all the authors of the article are listed.

Berner, J. B.

42-137   Increased Suppressed-Carrier Telemetry Return by Means of Frequent Changes in Bit Rate During a Tracking Pass, pp. 1–17.

See Sue, M. K.

42-137   Regenerative Pseudo-Noise Ranging for Deep-Space Applications, pp. 1–18.

J. M. Layland, P. W. Kinman, and J. R. Smith

Bertiger, W.

42-137   Precise Real-Time Low-Earth-Orbiter Navigation With the Global Positioning System (GPS), pp. 1–11.

B. Haines, D. Kuang, M. Lough, S. Lichten, R. J. Muellerschoen, Y. Vigue-Rodi, and S.Wu

Brandt, J. J.

42-139   Modifications of the Torque-Bias Profile for Improved Tracking of Beam-Waveguide Antennas, pp. 1–17.

See Gawronski, W.

Britcliffe, M.

42-138   Progress in Design and Construction of the Optical Communications Laser Laboratory, pp. 1–6.

See Wilson, K. E.

Brown, P. R.

42-138   Design and Performance of the Monopulse Pointing System of the DSN 34-Meter Beam-Waveguide Antennas, p. 1–29.

See Gudim, M. A.

Butman, S.

42-137   The Mars Global Surveyor Ka-Band Link Experiment (MGS/KaBLE-II), pp. 1–41.

See Morabito, D.

Haines, B.

42-137   Precise Real-Time Low-Earth-Orbiter Navigation With the Global Positioning System (GPS), pp. 1–11.

        See Bertiger, W.

Hamkins, J.

42-138   The Capacity of Avalanche Photodiode-Detected Pulse-Position Modulation, pp. 1–19.

42-138   Performance of Binary Turbo-Coded 256-ary Pulse-Position Modulation, pp. 1–15.

42-139   A Joint Receiver–Decoder for Convolutionally Coded Binary Phase-Shift Keying (BPSK), pp. 1–23.

Hansen, D.

42-138   Micro Communications and Avionics Systems First Prototype (MCAS1): A Low Power, Low Mass In Situ Transceiver, pp. 1–35.

        See Satorius, E.

Ho, C.

42-138   An Estimate of Interference Effect From the Los Angeles Area High-Density Fixed Services (HDFS) on the Goldstone DSN Receiver Above 30 GHz: Monte Carlo Simulation, pp. 1–18.

        M. K. Sue and C. Ruggier

Hoppe, D. J.

42-140   Computational Methods and Theoretical Results for the Ka-Band Array Feed Compensation System--Deformable Flat Plate Experiment at DSS 14, pp. 1–23.

        See Imbriale, W. A.

Hurd, W. J.

42-138   Design and Performance of the Monopulse Pointing System of the DSN 34-Meter Beam-Waveguide Antennas, p. 1–29.

        See Gudim, M. A.

Imbriale, W. A.

42-140   Computational Methods and Theoretical Results for the Ka-Band Array Feed Compensation System–Deformable Flat Plate Experiment at DSS 14, pp. 1–23.

D. J. Hoppe

Kiasaleh, K.

42-138   An Analysis of Heterodyne Pulse-Position Modulation Communication Systems Over Unguided, Turbulent Optical Channels, pp. 1–14.

T.-Y. Yan

Kinman, P. W.

42-137   Increased Suppressed-Carrier Telemetry Return by Means of Frequent Changes in Bit Rate During a Tracking Pass, pp. 1–17.

See Sue, M. K.

42-137   Regenerative Pseudo-Noise Ranging for Deep-Space Applications, pp. 1–18.

See Berner, J. B.

42-140   Mutual Interference of Ranging and Telemetry, pp. 1–14.

M. K. Sue, T. K. Peng, and J. F. Weese

Klimesh, M.

42-139   Quantization Considerations for Distortion-Controlled Data Compression, pp. 1–38.

Kuang, D.

42-137   Precise Real-Time Low-Earth-Orbiter Navigation With the Global Positioning System (GPS), pp. 1–11.

See Bertiger, W.

Law, E.

42-138   Deep Space Terminal Demonstration, pp. 1–24.

See Paal, L.

Makovsky, A.

42-140   Telecommunications Analysis for "Faster, Better, Cheaper" Deep Space Flight Planning and
          Operations: The Deep Space 1 (DS1) Experience, pp. 1–20.

          See Cheung, K.-M.

Maleki, L.

42-138   Performance of a 12-Kilometer Photonic Link for X-Band Antenna Remoting in NASA's
          Space Network, pp. 1–8.

          See Lutes, G.

Maneri, E.

42-139   Modifications of the Torque-Bias Profile for Improved Tracking of Beam-Waveguide Antennas,
          pp. 1–17.

          See Gawronski, W.

42-140   Linear Quadratic Gaussian Controller Design Using a Graphical User Interface: Application to
          the Beam-Waveguide Antennas, pp. 1–29.

          W. Gawronski

Mileant, A.

42-137   Increased Suppressed-Carrier Telemetry Return by Means of Frequent Changes in Bit Rate
          During a Tracking Pass, pp. 1–17.

          See Sue, M. K.

Morabito, D.

42-137   The Mars Global Surveyor Ka-Band Link Experiment (MGS/KaBLE-II), pp. 1–41.

          S. Butman and S. Shambayati

Muellerschoen, R. J.

42-137   Precise Real-Time Low-Earth-Orbiter Navigation With the Global Positioning System (GPS),
          pp. 1–11.

          See Bertiger, W.

Otoshi, T. Y.

42-138   Measurements of Complex Dielectric Constants of Paints and Primers for DSN Antennas: Part I, pp. 1–13.

                R. Cirillo, Jr., and J. Sosnowski

42-139   Measurements of Complex Dielectric Constants of Paints and Primers for DSN Antennas: Part II, pp. 1–7.

                R. Cirillo, Jr., and J. Sosnowski

42-140   Noise Temperature and Gain Loss due to Paints and Primers on DSN Antenna Reflector Surfaces, pp. 1–26.

                Y. Rahmat-Samii, R. Cirillo, Jr., and J. Sosnowski

42-140   Noise Temperature of a Lossy Flat-Plate Reflector for the Elliptically Polarized Wave Case, pp. 1–6.

                C. Yeh

Paal, L.

42-138   Deep Space Terminal Demonstration, pp. 1–24.

                N. Golshan, F. Fisher, E. Law, W. Veruttipong, and M. Stockett

Pechkam, P.

42-138   An Automation Language for Managing Operations (ALMO) in the Deep Space Network, p. 1–10.

                See Santos, P. F.

Peng, T. K.

42-140   Mutual Interference of Ranging and Telemetry, pp. 1–14.

                See Kinman, P. W.

Quintero, O.

42-139   Azimuth-Track-Level Compensation to Reduce Blind-Pointing Errors of the Beam-Waveguide Antennas, pp. 1–18.

                See Gawronski, W.

Shambayati, S.

42-137   The Mars Global Surveyor Ka-Band Link Experiment (MGS/KaBLE-II), pp. 1–41.

            See Morabito, D.

42-139   Optimization of a Deep-Space Ka-Band Link Using Atmospheric-Noise-Temperature
            Statistics, pp. 1–16.

42-140   Analysis and Optimization of the Performance of a Convolutionally Encoded Deep-Space Link
            in the Presence of Spacecraft Oscillator Phase Noise, pp. 1–11.

Shieh, W.

42-138   Performance of a 12-Kilometer Photonic Link for X-Band Antenna Remoting in NASA's
            Space Network, pp. 1–8.

            See Lutes, G.

Simon, M. K.

42-137   Performance Evaluation and Interpretation of Unfiltered Feher-Patented Quadrature-Phase-Shift
            Keying (FQPSK), pp. 1–29.

             T.-Y. Yan

42-139   Performance of Coherent Binary Phase-Shift Keying (BPSK) with Costas-Loop Tracking in
            the Presence of Interference, pp. 1–24.

42-140   A Comparison of the Performances of Coherent Binary-Phase-Shift Keying (BPSK) and Offset
            Quadrature-Phase-Shift Keying (OQPSK) in the Presence of Interference, pp. 1–18.

            S. Darden

Smith, J. R.

42-137   Regenerative Pseudo-Noise Ranging for Deep-Space Applications, pp. 1–18.

            See Berner, J. B.

Tan, H. H.

42-137   Increased Suppressed-Carrier Telemetry Return by Means of Frequent Changes in Bit Rate During a Tracking Pass, pp. 1–17.

        See Sue, M. K.

Taylor, J.

42-140   Telecommunications Analysis for "Faster, Better, Cheaper" Deep Space Flight Planning and Operations: The Deep Space 1 (DS1) Experience, pp. 1–20.

        See Cheung, K.-M.

Tong, K. K.

42-140   A Multimission Deep-Space Telecommunications Analysis Tool: The Telecom Forecaster Predictor, pp. 1–7.

        R. H. Tung

Tsou, H.

42-137   The Combined Effect of Modulator Imbalances and Amplifier Nonlinearity on the Performance of Offset Quadrature-Phase-Shift-Keyed (OQPSK) Systems, pp. 1–18.

Tung, R. H.

42-140   A Multimission Deep-Space Telecommunications Analysis Tool: The Telecom Forecaster Predictor, pp. 1–7.

        See Tong, K. K.

Veruttipong, W.

42-137   Temperature Testing of the New S-Band Transmitter Filter for DSS 54, pp. 1–5.

        See Cirillo, R.

42-138   Deep Space Terminal Demonstration, pp. 1–24.

        See Paal, L.

Vigue-Rodi, Y.

42-137   Precise Real-Time Low-Earth-Orbiter Navigation With the Global Positioning System (GPS), pp. 1–11.

             See Bertiger, W.

Vilnrotter, V.

42-139   Carrier Synchronization for Low Signal-to-Noise Ratio Binary Phase-Shift-Keyed Modulated Signals, pp. 1–16.

             A. Gray and C. Lee

42-139   Demonstration and Evaluation of the Ka-Band Array Feed Compensation System on the 70-Meter Antenna at DSS 14, pp. 1–17.

             D. Fort

Wang, C.

42-138   Micro Communications and Avionics Systems First Prototype (MCAS1): A Low Power, Low Mass In Situ Transceiver, pp. 1–35.

             See Satorius, E.

Weese, J. F.

42-137   Increased Suppressed-Carrier Telemetry Return by Means of Frequent Changes in Bit Rate During a Tracking Pass, pp. 1–17.

             See Sue, M. K.

42-140   Mutual Interference of Ranging and Telemetry, pp. 1–14.

             See Kinman, P. W.

Wilson, K. E.

42-138   Progress in Design and Construction of the Optical Communications Laser Laboratory, pp. 1–6.

             M. Britcliffe and N. Golshan

Wu, S.

42-137   Precise Real-Time Low-Earth-Orbiter Navigation With the Global Positioning System (GPS), pp. 1–11.

     See Bertiger, W.

Yan, T.-Y.

42-137   Performance Evaluation and Interpretation of Unfiltered Feher-Patented Quadrature-Phase-Shift Keying (FQPSK), pp. 1–29.

     See Simon, M. K.

42-138   An Analysis of Heterodyne Pulse-Position Modulation Communication Systems Over Unguided, Turbulent Optical Channels, pp. 1–14.

     See Kiasaleh, K.

Yao, S.

42-138   Performance of a 12-Kilometer Photonic Link for X-Band Antenna Remoting in NASA's Space Network, pp. 1–8.

     See Lutes, G.

Yeh, C.

42-140   Noise Temperature of a Lossy Flat-Plate Reflector for the Elliptically Polarized Wave Case, pp. 1–6.

     See Otoshi, T. Y.