

# Deep Space Optical Communications

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TDA Progress Report 42-118 August 15, 1994 Research and Development Optical  
Deep Space Antenna Sizing Study D. Wonica Communications Systems Research  
Section

Abstract We present an efficient implementation of a coded modulation for the deep space optical channel. NASA designed this so called serially concatenated pulse

With successful tests minimizing the major risks in the end-to-end system, the promise of optical communications for deep space could soon be realized.

A major problem in deep-space communication systems is that of obtaining high data rates (of the order of  $10^7$  bits per second). This article proposes some design

Deep Space Communications research focuses on optical communications, information processing, and the Deep Space Network

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Feasibility of infrared Earth tracking for deep-space optical communications Yijiang Chen, Hamid Hemmati, and Gerry G. Ortiz

Deep Space Optical Communications (DSOC) Entry Systems Modeling (ESM) Fast Light Optical Gyroscopes (FLOG) High Performance Spaceflight Computing (HPSC)

Abstract: Technological developments leading toward the use of optical communications on deep-space missions are reviewed. Developments in the characterization of

Deep-space opticalcommunications Recent investigations have shown that laser systems, particularly the incoherent direct detection andtransmittedreferencesystems, have

Abstract The technology development, spacecraft systems impact, design examples and overall development plan for optical deep space communications are described.

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Proc. SPIE 0810, Optical Systems for Space Applications, 172 (September 18, 1987); doi:10.1117/12.941539

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c. chapoton, westinghouse electric corp., atomic, defense and space group, surface div., baltimore, md.; j. white, westinghouse electric corp., atomic, defense and

TMO Progress Report 42-142 August 15, 2000 Design of an Opto-Electronic Receiver for Deep-Space Optical Communications G. G. Ortiz,<sup>1</sup> J. V. Sandusky,<sup>1</sup> and A. Biswas<sup>1</sup>

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Deep Space Optical Communications. New high-rate telecommunications systems are needed for NASA's future deep space missions. These systems would result in

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