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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 92 pages. Original publisher: Washington, D. C. : National Aeronautics and Space Administration, Office of Management, Scientific and Technical Information Division ; Springfield, Va. : For sale by the National Technical Information Service, 1991. OCLC Number: (OCoLC)34370817 Subject: Astronautics -- Communication systems. Excerpt: . . . ion I INTRODUCTION Laser diode devices, to be qualified for space communication or other space applications, are required to have high reliability because of the cost and the difficulty of performing repair or maintenance tasks in the space environment. High power operation is required for laser sources in space communication to reduce the overall size of both the transmitter and receiving systems. Prior to the beginning of this work, the CSP laser was the best known AlGaAs diode laser structure for high power in a single spatial mode in the 780-870 nm wavelength range. CSP lasers developed under previous contracts have exhibited single spatial mode emission at output powers to 160 mW, with phase front aberrations less than 1/40 of a wavelength rms and power conversion efficiency exceeding 35 %. It was therefore an excellent candidate for high power space communication. The purpose of this program was to improve the reliability of high power 870 nm AlGaAs CSP lasers. The goal was to obtain 60 mW peak power with less than 2mW reduction in the output power per 1000 h at 25 C, with modulation at 100 MHz and 50 duty cycle. The far-field pattern, single spectral mode characteristics and polarization ratio should not degrade during 6000 h of aging under the above conditions. In order to achieve the prescribed degradation rate at this high output power level, the CSP design must be optimized or improved, and the lasers must be...

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