

Dye laser traveling wave amplifier - final report for NASA cooperative agreement NCC5-24 : report covers the period Dec. 1980 - Dec. 1984

Electrical Engineering & Computer Science Dept., The Johns Hopkins University - Post



Description: -

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Lasers in aeronautics.

Dye lasers. Dye laser traveling wave amplifier - final report for NASA cooperative agreement NCC5-24 : report covers the period Dec. 1980 - Dec. 1984

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NASA contractor report -- NASA CR-175989. Dye laser traveling wave amplifier - final report for NASA cooperative agreement NCC5-24 : report covers the period Dec. 1980 - Dec. 1984

Notes: Microfiche. [Washington, D.C. : National Aeronautics and Space Administration, 1985] 2 microfiches.

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. With advancements in modeling and more » simulation, radial core expansion phenomena can now be modeled directly, providing an assessment of the accuracy of the reactivity feedback coefficients generated by indirect legacy methods. On a primary spacecraft system such as a solar array, there is very little tolerance for arcing.

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Closeness of the agreement between the results of the measurements of the same measurand carried out under changed conditions of measurement. The design of the arcjet built for this effort was based on previous low power 1 kW class arcjets. With external modulation, such lasers may prove to be efficient sources for intersatellite communications.

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This paper, however, addresses only the problem of preserving, or even enhancing, the initial photolytic CO by quenching the hot gas with colder H₂O or CO₂.

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Metrologia 40 1 : S1—S4. Since the sources measured are quite different, the effect can be significant. The advantage to these programs includes independent validation of their methods by direct measurement and access to metrology programs that are permanent.

Dye Laser (A Liquid Laser)

Generation of electricity and production of LCDs are modeled using Constant Elasticity of Substitution functions. Laser gain medium and type
Operation wavelength s Pump source Applications and notes Hydrogen fluoride laser: to μm for hydrogen fluoride laser weaponry, operated in continuous wave mode, can have power in the megawatt range. Reproducibility assessed quantitatively over a decade of time determines stability.

Dye laser amplifier including a dye cell contained within a support vessel (Patent)

After the validation, this method was used to estimate the monthly average hourly direct normal irradiation over Thailand by using MTSAT-1R satellite data for the period from June 2005 to December 2008. These accuracies also must be sufficient to observe directly decadal changes in clouds and radiation budget that would constrain potential cloud feedback mechanisms in climate models.

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The blackbody laser concept is one system proposed to scale to multimegawatt power levels for space-to-space power transmissions for such applications as onboard spacecraft electrical or propulsion needs.

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