

Abstracts

Laser Diode Pumping with a Transmission Line Transformer

*M.C.R. Carvalho and W. Margulis. "Laser Diode Pumping with a Transmission Line Transformer." 1991 *Microwave and Guided Wave Letters* 1.12 (Dec. 1991 [MGWL]): 368-370.*

A semiconductor laser was fed by a high-frequency transmission line transformer in an impedance matched circuit. The laser threshold for short duration electrical pulses is showed to be significantly lower than with conventional 50 Omega transmission line arrangements. This set-up can be used to increase the overall efficiency of laser diode systems.

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