

S.P.9. SUBHASH, N.—Development and parametric studies of pulsed nitrogen and Q-switched Nd:Glass lasers and some of their applications—1982—Dr. K. Sathianandan.

The purpose of this investigation was to examine the design and fabrication techniques of pulsed Nitrogen lasers and high power Nd:Glass lasers. A transverse excited portable Nitrogen laser and Nd:Glass laser system capable of highly efficient operation in pulsed and Q-switched modes were fabricated and their characteristics studied. Laser damage studies were conducted on transparent, conducting films prepared by chemical vapour deposit technique.