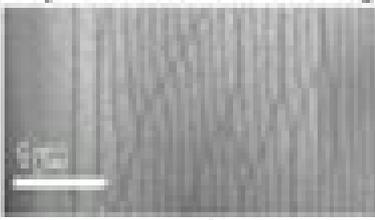
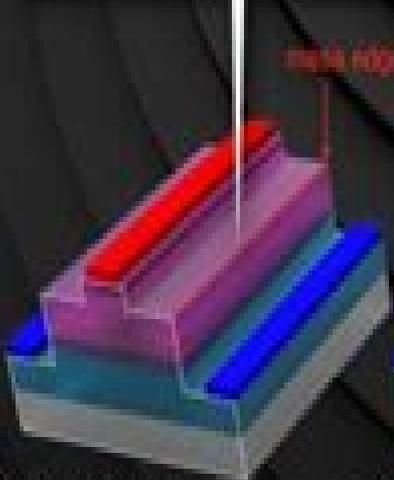


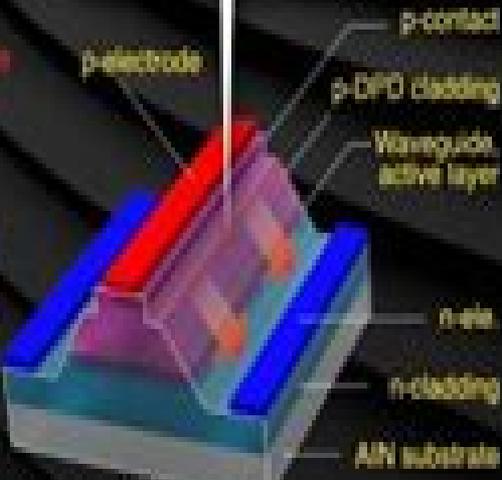
Crystal defects inhibit lasing



Completely free of defects



Conventional



New design

(Sloped mesa structure for local stress control)



750nm

380nm

Deep UV

274nm

ToF LIDAR

Blue-ray

DVD

CD

1962 Realization of semiconductor lasers

1980 Dawn of nitride semiconductors

1995 Nitride-based blue-violet laser diodes are realized

2019 First demonstration of pulsed operation of a deep-UV laser diode

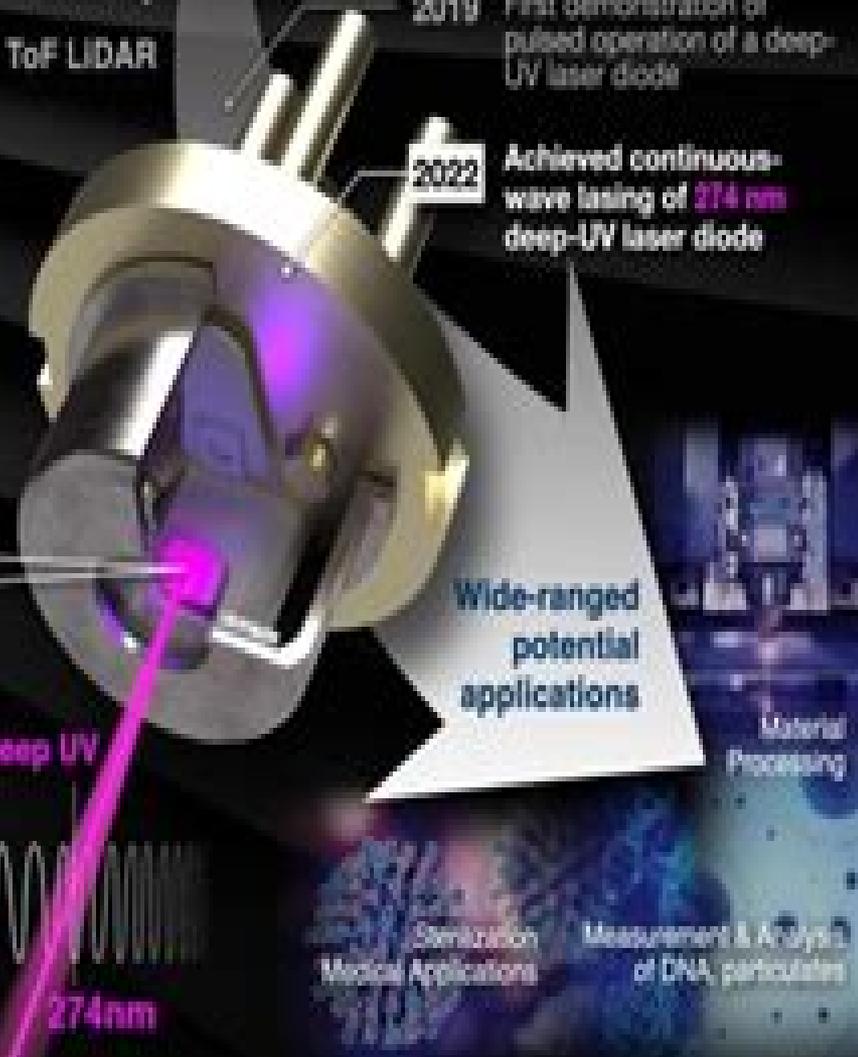
2022 Achieved continuous-wave lasing of 274 nm deep-UV laser diode

Wide-ranged potential applications

Material Processing

Sterilization Medical Applications

Measurement & Analysis of DNA, particulates



Solid State Maser

**Stanford University Stanford
Electronics Laboratories, Paul N.
Butcher**

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The Solid State Maser J. W. Orton, D. H. Paxman, J. C. Walling, 2016-04-20 The Solid State Maser presents readings related to solid state maser amplifier from the first tentative theoretical proposals that appeared in the early 1950s to the successful realization of practical devices and their application to satellite communications and radio astronomy almost exactly 10 years later The book discusses a historical account of the early developments including that of the ammonia maser of solid state maser the properties of paramagnetic ions in crystals the development of practical low noise amplifiers and the characteristics of maser devices designed for communications use The text also contains reprints of several important papers that illustrate various aspects of solid state maser Physicists will find the book useful Proposal for a New Type of Solid State Maser N. Bloembergen, 1956 A Solid State Maser Amplifier Alan Louis McWhorter, James Wagner Meyer, Lincoln Laboratory, 1957 **REVIEW OF SOLID-STATE MASER AMPLIFIERS.** J. M. Andres, TRW SPACE TECHNOLOGY LABS LOS ANGELES CALIF., 1958 Some of the more recent activities concerning solid state maser amplifiers are reported The most important characteristic of these amplifiers is their ability to amplify without introducing noise into the amplified output The usual sources of vacuum tube noise are not present and noise from cavity thermal radiation can be minimized by operating at very low temperatures Noise figures very near to the theoretical limit seem to be obtainable Some of the equations governing the behavior of these devices are presented as well as some of the experimental measurements of their amplification properties **Microwave Solid-state Masers** A. E. Siegman, 1964 *Lasers and Masers* United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1965 Solid State Maser Amplifiers Vernon Edward Olson, 1959 SOLID-STATE MASER RESEARCH. H. E. D. SCOVIL, BELL TELEPHONE LABS INC WHIPPANY N J., 1961 Bell Telephone Labs Inc Whippany N J SOLID STATE MASER RESEARCH Quarterly progress rept no 4 20 Mar 20 June 61 by H E D Scovil 20 June 61 44p incl illus Contract DA 36 039 sc 85357 Unclassified report DESCRIPTORS Microwave amplifiers Amplifiers x band Magnetic fields Gallium Calcium compounds Tungstates Paramagnetic resonance Lattices Spin Harmonic analysis Ruby Chemical impurities MEASUREMENT Paramagnetic crystals Equations Mathematical analysis Dielectrics Partial differential equations Impedance Electrical properties Mechanical properties Design Open ended Terms Masers Investigations were continued in the field of microwave solid state masers Work proceeded on distinct projects 1 Gadolinium in calcium tungstate as a maser material discusses work at frequencies near 6 gc In particular it was found that a push pull operation exists which may allow the design of a fast recovery maser 2 Harmonic spin coupling presents a continuation of an analytic study of the pumping of paramagnetics with harmonically related energy levels 3 space harmonic analysis of the comb type slowwave structure is an analytic study of the comb and a contribution towards the space harmonic analysis of the empty comb 4 Characteristics of a ruby maser at 6 gc gives design data and performance characteristics of a 6.4 gc traveling wave maser Author *THE SOLID STATE MASER.* J. O.

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