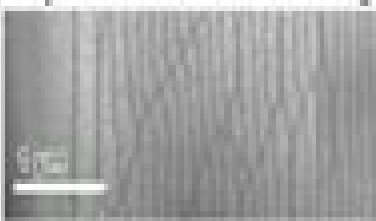
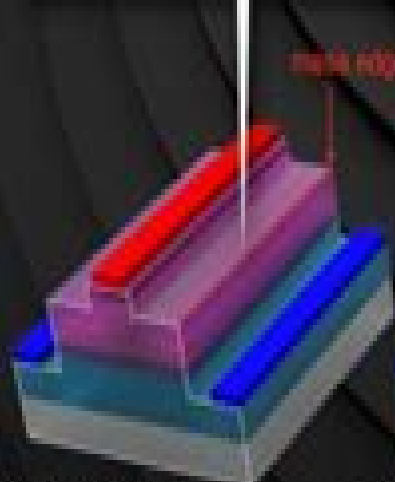


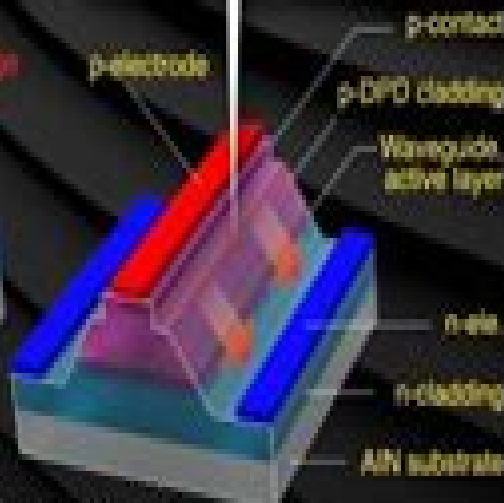
Crystal defects inhibit lasing



Completely free of defects



Conventional



New design

(Sloped mesa structure for local stress control)

Visible



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

Semiconductor Medical Applications

Measurement & Analysis of DNA, particulates

Solid State Maser

**United States. National Aeronautics
and Space Administration**



Solid State Maser:

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 21 Centimeter Solid State Maser* S. H. Autler, Nelson McAvoy, Lincoln

Laboratory, 1958 **A UHF Solid State Maser** Robert Hildreth Kingston, Lincoln Laboratory, 1957 **A Solid State Maser Amplifier** Alan Louis McWhorter, James Wagner Meyer, Lincoln Laboratory, 1957 *Lasers and Masers*, 1965

Lasers and Masers: a Continuing Bibliography United States. National Aeronautics and Space Administration, 1965

Masers U.S. Atomic Energy Commission, 1961 THE SOLID STATE MASER. J. O. ARTMAN, HARVARD UNIV CAMBRIDGE MA CRUFT LAB., 1957 **Masers and Lasers** Defense Documentation Center (U.S.), 1962 **Scientific and Technical Aerospace Reports**, 1963 **Lasers and Masers - A Continuing Bibliography with Indexes**, 1967 **The Michigan Technic**, 1964 **Fundamentals of Microwave Electronics** V. N. Shevchik, 2014-06-20 Electronics and Instrumentation Volume 16 Fundamentals of Microwave Electronics provides an understanding of the phenomena that occur in the physics and technology of microwave electron devices This book presents a systematic examination of the physical processes that take place in microwave electron devices Organized into three parts encompassing seven chapters this volume begins with an overview of oscillatory systems used in microwave electron devices This text then explains the two fundamental methods of producing density modulation of an electron beam Other chapters consider the energy exchange between an electron beam and an alternating electric field which is associated with a change in electron kinetic energy This book discusses as well the basic operational principles of the various microwave electron devices The final chapter deals with microwave devices with resonator or delay line circuits This book is a valuable resource for light electrical engineers Students specializing in the microwave field will also find this book useful **OTS Selective Bibliography** United States. Dept. of Commerce. Office of Technical Services, *Fiftieth Anniversary, 1912-1962* Institute of Radio Engineers, 1962 TID, 1961 **Advances in Electronics and Electron Physics**, 1961-01-01 Advances in Electronics and Electron Physics **Masers & lasers. v. 1**, 1965 **Communist Chinese Scientific Abstracts** United States. Joint Publications Research Service, 1965

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