
EDITORIAL  Public Policy and Health Manpower: C. C. Fordham, III  

ARTICLES  Laser Annealing of Ion-Implanted Semiconductors: C. W. White, J. Narayan, R. T. Young  
Nitrate Losses from Disturbed Ecosystems: P. M. Vitousek et al.  
Basic Research in the United States: P. Handler  

NEWS AND COMMENT  President Carter Addresses National Academy  
Debate on the Future of Weapons Labs Widens  
Radiation Responsibilities  
Rodent Repellers Attract EPA Strictures  
Briefing: U.S. Scientists Say World Dominance Is Over; Kennedy Leaves FDA for Stanford; Dynamite Prizes; To Accept Is to Reject; The Publishing Paradox  

RESEARCH NEWS  Continuation Methods: New Ways to Solve Equations  
Is Labile Hypertension a Myth?  

AAAS NEWS  News from Interciencia Association: J. W. Rowe; AAAS Travelers; Janet Brown Leaves AAAS; R. Green; PSA to Meet in the Soviet Union; PRC Visits AAAS; African Philosophers Meet in Benin
BOOK REVIEWS

The Dynamics of Arthropod Predator-Prey Systems, reviewed by T. W. Schoener; Opossum Neurobiology, G. F. Martin, Jr.; Octopus, P. P. C. Grazzini; Science in the Middle Ages, C. B. Schmitt; Books Received

REPORTS


Acid Rain: Neutralization Within the Hubbard Brook Ecosystem and Regional Implications: N. M. Johnson


Cement Line Motion in Bone: R. Lakes and S. Saha

Chicken Gizzard: Relation Between Calcium-Activated Phosphorylation and Contraction: P. E. Hoar, W. G. L. Kerrick, P. S. Cassidy

Selective Phospholipid Adsorption and Atherosclerosis: N. L. Gershfield

Membrane Effects of Thyrotropin-Releasing Hormone and Estrogen Shown by Intracellular Recording from Pituitary Cells: B. Dufy et al.

DNA Polymerase with Characteristics of Reverse Transcriptase Purified from Human Milk: J. A. Kantor et al.

Smoking Impairs Long-Term Dust Clearance from the Lung: D. Cohen, S. F. Arai, J. D. Brain

Embryonic Rodent Brain Contains Estrogen Receptors: C. C. Vito and T. O. Fox

Teleostean Urophysis: Urotensin II and Ion Transport Across the Isolated Skin of a Marine Teleost: W. S. Marshall and H. A. Bern

Multiple Representations of the Body Within the Primary Somatosensory Cortex of Primates: J. H. Kaas et al.

Intraretinal Distribution of Cone Pigments in Certain Teleost Fishes: J. S. Levine et al.

Human Skin Fibroblasts Derived from Papillary and Reticular Dermis: Differences in Growth Potential in vitro: R. A. Harper and G. Grove

Conditioned Inhibition: Selective Response of Single Units: L. de Toledo-Morrell, T. J. Hoepner, F. Morrell


COVER

Defects in boron-implanted silicon after conventional thermal annealing as seen in a false color transmission electron micrograph. Defects in the form of dislocations, loops, and stacking faults are observed by the electron microscope at a magnification of about ×60,000 in the implanted, thermally annealed (at 1100°C for 30 minutes) specimens whereas no defects were observed after high-powered laser annealing of the ion-implanted specimens. The black-and-white negative of the micrograph was exposed through an amber filter to produce this color. See page 461. [J. Narayan, C. W. White, and R. T. Young, Solid State Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37830]