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[Manipulation of vortices by magnetic domain walls](#)
[Sharp Resonant Multiplet in Femto-second Optical Pair-breaking Spectroscopy of YBa₂Cu₃O_{7-δ}](#)

[The non-hexagonal flux-line lattice in superconductors](#)
[Electron Vortices on Semiconductor Devices](#)
[Interaction-induced Bose Metal in 2D](#)
[Avalanches and Self-Organized Criticality in superconductors](#)
[A Snapshot View of High Temperature Superconductivity 2002](#)
[Impurities in high- \$T_c\$ superconductors: an NMR study of \$\text{YBa}_2\(\text{Cu}_{0.995}\text{Zn}_{0.005}\)_4\text{O}_8\$](#)
[Levitation and Suspension Effects in Superconductors](#)
[Ultra-Low Emission Liquid Nitrogen Automobile](#)
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[Superconductors in realistic geometries: geometric edge barrier versus pinning](#)
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[Investigation of an Energy Anomaly in Magnetic Circuits](#)
[Cryogenic Machining](#)
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[High Temperature Superconductor Materials and their Applications in Electric Motors](#)
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[Critical current density and flux pinning dominated by neutron irradiation induced defects in \$\text{YBa}_2\text{Cu}_3\text{O}_{7-x}\$](#)
[MHD Modeling of Conductors at Ultra-High Current Density](#)
[The relationship between Efficiency and Coefficient of Performance](#)
[How Cooper Pairs Explain High Temperature Superconductors](#)
[First Time Resolved X-ray Diffraction Measurements on Superconducting YBCO Thin Films](#)
[Publications by Dr. Tom Bearden](#)
[Impulse Gravity Generator Based on Charged \$\text{YBa}_2\text{Cu}_3\text{O}_{7-y}\$ Superconductor with Composite Crystal Structure](#)
[Fabrication and Electronic Transport Properties of Underdoped High Temperature Superconductor Nanowires](#)
[Vortex Matter in Nanostructures Superconductors – Abstract Summaries](#)

[List of Abstracts related to cryogenics/superconductors](#)

[Frequency, Energy and Power: New perspectives in quantum physics](#)

[The Free Energy and the Scaling Function of the Ferromagnetic Heisenberg Chain in a Magnetic Field](#)

[Optical Control of Vortices in High-Tc Superconductors](#)

[Effect of Crossed Flux on Flux Pinning in YBCO Superconductor](#)

Other Articles Available for Purchase Online

[Optical Cooper pair breaking spectroscopy of \$\text{YBa}_2\text{Cu}_{2.8}\text{Zn}_{0.2}\text{O}_7\$ - thin films](#)

[Fermi-level dependence of femtosecond response in nonequilibrium high- \$T_c\$ superconductors](#)

[Optically Activated High Temperature Superconductor Opening Switches](#)

[Rapid flux motion and critical state dynamics in a superconducting disk](#)

[Mechanism of picosecond response of granular YBaCuO films to electromagnetic radiation](#)

[A Laser-Triggered Inductive Opening Switch Using High-Temperature Superconducting Thin Films](#)

[Fast Inductively Coupled Superconducting Opening Switch Triggered By Short Laser Pulses](#)

[Thermodynamics of a Superconducting Energy Converter](#)

[Picosecond superconductor opening switches](#)

[Nanosecond inductive energy storage pulsed power system using YBCO superconductor opening switches](#)

[\$\(\text{Tl}_{0.5}\text{Pb}_{0.5}\)\(\text{Sr}_{0.8}\text{Ba}_{0.2}\)_2\text{Ca}_2\text{Cu}_3\text{O}_y\$ superconducting thick films with high in-field critical current densities](#)

[Sensitivity and gigahertz counting performance of NbN superconducting single-photon detectors](#)

[Photoinduced magnetism, dynamics, and cluster glass behavior of a molecule-based magnet](#)

[Vortex shells in mesoscopic superconducting disks](#)

[An unusual phase transition to a second liquid vortex phase in the superconductor \$\text{YBa}_2\text{Cu}_3\text{O}_7\$](#)

[Heat-flow calculation of pulsed excimer ultraviolet laser's melting of amorphous and crystalline silicon surfaces](#)

[Pinning-induced stress during activation of bulk HTSs as trapped-field magnets](#)

[Calculations of hysteresis in a short cylindrical type II superconductor](#)

[Stabilization of toroidal Abrikosov vortex in a nonuniform superconductor](#)

[Work done on charged particles in magnetic fields](#)

[Magnetic vortices and thermoelectric effect in a hollow superconducting cylinder](#)

[The Physics of Superconducting Magnets](#)

[Comment on "One-piece Faraday generator: A paradoxical experiment from 1851"](#)

[Ballistic current vortex excitations in electron waveguide structures](#)

[The Elusive Bose Metal](#)

[The effects of point-like pinning in a vortex lattice](#)

[Papers Published on Cryogenic Propulsion](#)

[Experimental Evidence for an Energy Gap in Superconductors](#)

[High Temperature Superconducting Vector Switch](#)

[Novel High Tc Nonbolometric Superconducting Detectors](#)

[Versatile and economical specimen heater for ultrahigh vacuum applications](#)

[London relation and fluxoid quantization for monopole currents in U\(1\) lattice gauge theory](#)

[Kleemenko Cycle Coolers: Low Cost Refrigeration at Cryogenic Temperatures](#)

[Direct Deposition of C-Axis Textured High-Tc Ybco Superconducting Thick Films Unoriented Metallic Substrates](#)

[Colossal magnetoresistance in La-Ca-Mn-O thin films](#)

[Room Temperature Magnetoresistance at Low Magnetic Fields in \$\text{La}_{0.7}\text{Ba}_{0.3}\text{MnO}_3\$](#)

[Double minimum in the free energy of a type-II superconductor](#)

[Magnetic Properties of Thick Film Cylinders](#)

[Magnetic flux density distribution in superconducting cylinders of arbitrary cross section subjected to an axial magnetic field](#)

[Superconductor disks and cylinders in an axial magnetic field. I. Flux penetration and magnetization curves](#)

[Current distribution in \$\text{YBa}_2\text{Cu}_3\text{O}_{7-d}\$ disk-shaped thin film by scanning Hall probe measurements](#)

[Clinical and morphological aspects of death due to liquid nitrogen](#)

[Unusual Photon Energy Dependence of the Cooper Pair Breaking Rate in \$\text{YBa}_2\text{Cu}_3\text{O}_{7-d}\$ Epitaxial Thin Films](#)