REVIEWS OF MODERN PHYSICS
Volume 73, Number 3, July 2001

565 *Colloquium*: Manipulating quantum entanglement with atoms and photons in a cavity
J. M. Raimond, M. Brune, and S. Haroche

583 The physics of manganites: Structure and transport
Myron B. Salamon and Marcelo Jaime

629 Matter in strong magnetic fields
Dong Lai

663 Historical roots of gauge invariance
J. D. Jackson and L. B. Okun

681 Nobel Lecture: Semiconducting and metallic polymers: The fourth generation of polymeric materials
Alan J. Heeger

701 Nobel Lecture: "Synthetic metals": A novel role for organic polymers
Alan G. MacDiarmid

713 Nobel Lecture: The discovery of polyacetylene film—the dawning of an era of conducting polymers
Hideki Shirakawa

719 The theory of brown dwarfs and extrasolar giant planets
Adam Burrows, W. B. Hubbard, J. I. Lunine, and James Liebert

767 Nobel Lecture: The double heterostructure concept and its applications in physics, electronics, and technology
Zhores I. Alferov

783 Nobel Lecture: Quasielectric fields and band offsets: teaching electrons new tricks
Herbert Kroemer

795 Forthcoming articles

