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Papers Dedicated to C. J. Bouwkamp C.J. Bouwkamp,1975 **Special Issue in Honour of C.J. Bouwkamp on the Occasion of His 60th Birthday and His Retirement as Scientific Adviser of Philips Research Laboratories and Editor-in-chief of Philips Research Reports** C.J. Bouwkamp,Philips Research Laboratories,1975 **Philips Research Reports** ,1949 Plasmonics: Fundamentals and Applications Stefan Alexander Maier,2007-05-16 Considered a major field

of photonics plasmonics offers the potential to confine and guide light below the diffraction limit and promises a new generation of highly miniaturized photonic devices This book combines a comprehensive introduction with an extensive overview of the current state of the art Coverage includes plasmon waveguides cavities for field enhancement nonlinear processes and the emerging field of active plasmonics studying interactions of surface plasmons with active media

Guiding of electromagnetic energy in subwavelength periodic metal structures Stefan Maier,2003-04-07 Inhaltsangabe Abstract The ultimate miniaturization of optical devices requires structures that guide electromagnetic energy with a lateral confinement below the diffraction limit of light In this thesis the possibility of employing plasmon polariton excitations in plasmon waveguides consisting of closely spaced metal nanoclusters for this purpose is examined The feasibility of energy transport with mode sizes below the diffraction limit of visible light over distances of several hundred nanometers is demonstrated As a macroscopic analogue to plasmon waveguides the transport of electromagnetic energy in the microwave regime along closely spaced centimeter scale metal rods is examined Full field electrodynamic simulations show that information transport occurs at a group velocity of $0.65c$ for fabricated structures consisting of copper rods excited at 8 GHz A variety of passive routing structures and an all optical modulator are demonstrated The possibility of guiding electromagnetic energy at visible frequencies with mode sizes below the diffraction limit using plasmon waveguides is analyzed using a point dipole model and finite difference time domain simulations It is shown that energy transport occurs via near field coupling between metal nanoparticles which leads to coherent propagation of energy For spherical gold particles in air group velocities up to $0.06c$ are demonstrated and a change in particle shape to spheroidal particles shows up to a threefold increase in group velocity Pulses with transverse polarization are shown to propagate with negative phase velocities antiparallel to the energy flow Plasmon waveguides consisting of gold and silver nanoparticles were fabricated using electron beam lithography The key parameters that govern the energy transport are determined for various interparticle spacings and particle chain lengths using far field measurements of the collective plasmon modes Spherical gold nanoparticles with a diameter of 50 nm and an interparticle spacing of 75 nm show an energy attenuation of 6 dB/30 nm This loss can be reduced by one order of magnitude by a geometry change to spheroidal particles Using the tip of a near field

optical microscope as a local excitation source and fluorescent nanospheres as detectors experimental evidence for energy transport over a distance of 0.5 μm is presented for plasmon waveguides consisting of silver rods with a 3:1 aspect ratio

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[Plasmonics](#) Ki Young Kim, 2012-10-24 The title of this book Plasmonics Principles and Applications encompasses

theory technical issues and practical applications which are of interest for diverse classes of the plasmonics The book is a collection of the contemporary researches and developments in the area of plasmonics technology It consists of 21 chapters that focus on interesting topics of modeling and computational methods plasmonic structures for light transmission focusing and guiding emerging concepts and applications

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