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Autore	Cochrane, Willard Wesley <1914- >
Titolo	The Economics of Consumption Economics of decision Making in the Household / Willard W. Cochrane, Carolyn Shaw Bell
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Autore	Martín Becerra Diana
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Soggetti	Lasers Photonics Surfaces (Physics) Interfaces (Physical sciences) Thin films Nanotechnology Nanoscience Nanostructures Materials—Surfaces Optics, Lasers, Photonics, Optical Devices Surface and Interface Science, Thin Films Nanoscale Science and Technology Surfaces and Interfaces, Thin Films

Lingua di pubblicazione	Inglese
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Note generali	"Doctoral thesis accepted by Complutense University of Madrid, Spain."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Motivation and Objectives -- Active Plasmonics and Magnetoplasmonics -- Magnetoplasmonic Interferometry -- Magnetic Modulation of SPP in Au/Co/Au Trilayers -- Sensing Capability of the Interferometers -- Near Field Magnetoplasmonic Interferometry -- General Conclusions.
Sommario/riassunto	<p>This thesis investigates the effect of the magnetic field on propagating surface plasmon polaritons (SPPs), or surface plasmons for short. Above all, it focuses on using the magnetic field as an external agent to modify the properties of the SPPs, and therefore achieving active devices. Surface plasmons are evanescent waves that arise at metal–dielectric interfaces. They can be strongly confined (beyond the light diffraction limit), and provide a strong enhancement of the electromagnetic field at the interface. These waves have led to the development of plasmonic circuitry, which is a key candidate as an alternative to electronic circuitry and traditional optical telecommunication devices, since it is faster than the former and less bulky than the latter. Adopting both a theoretical and an experimental point of view, the book analyzes the magnetic modulation in SPPs by means of an interferometer engraved in a multilayer combining Au and Co. In this interferometer, which acts like a modulator, the SPP magnetic modulation is studied in detail, as are the parameters that have a relevant impact on it, simple ways to enhance it, its spectral dependence, and the highly promising possibility of using this system for biosensing. The thesis ultimately arrives at the conclusion that this method can provide values of modulations similar to other active methods used in plasmonics. .</p>