
Acoustic Surface Wave Acousto-Optic Devices

acousto-optic modulator driven by surface acoustic waves - acousto-optic modulator driven by surface acoustic waves s. kakio * ... the surface acoustic wave mode dependence in the acousto-optic bragg diffraction was discussed by considering the surface acoustic wave power required for the maximum diffraction p ... tandem acousto-optic modulator in which several waveguide-type acousto-optic modulators are ... **high-frequency surface acoustic waves for acousto-optic** ... - high-frequency surface acoustic waves for acousto-optic electronic transport wilfred g. van der wiel ... surface acoustic waves (saws) • mechanical wave: rayleigh wave longitudinal and transverse motion • propagate in the surface with sound velocity v . energy concentrated in . **surface acoustic wave distribution and acousto-optic** ... - surface acoustic wave distribution and acousto-optic ... acoustic aperture and θ_b is the bragg angle. the ao diffraction efficiency strongly depends on the overlap f between the optical and ... **surface acoustic waves for acousto-optic modulation in** ... - in the following we consider acousto-optic modulation using a mzi, in a setting where the acoustic wave propagates perpendicular to the optical waveguide axis of the two arms of the mzi as shown in fig. 1. we briefly discuss the relation between strain and the refractive index and the surface acoustic wave of interest. **detection of surface waves in the ground using an acoustic** ... - an acousto-electromagnetic technique that has the ... , which are detected with a radar, which scans the surface to be cleared of mines. the radar system visualizes the surface wave and its interaction with the mine by measuring the surface vibration. this radar ground vibration measuring system is expensive and may ... is excited by an ... **sub-optical wavelength acoustic wave modulation of** ... - to integrate acousto-optics, a new paradigm was introduced in the seventies which integrated surface acoustic wave (saw) transducers with planar optical waveguides 7,8. in contrast to bulk acoustic waves, surface acoustic waves propagate on the surface of piezoelectric materials **ultrahigh-frequency surface acoustic wave generation for** ... - ultrahigh-frequency surface acoustic wave generation for acoustic charge transport in silicon s. büyüköke, b. vrazov, j. van der veen, p. v. santos, and w. g. van der wiel ... ultrahigh-frequency surface acoustic wave generation for acoustic charge ... examples exploiting the acousto-optic and acousto- **surface acoustic waves for signal processing - gbv** - surface acoustic waves for signal processing michel jfeldmann and jeannine henaff ... 6.2 principle of the acoustic surface wave oscillator 196 ... 7.4 general survey of acousto-optic interactions 241 7.5 conclusion 244 chapter 8 materials and technology 245 **finite difference methods for acoustic and acousto-gravity** ... - finite difference methods for acoustic and acousto-gravity wavefields: application to low frequency infrasound propagation ... the acoustic wave equations (i.e., neglecting gravity) indicate that ... understanding of the generation and propagation of infrasound energy from underground and near-surface explosions. **free surface flow and acousto-elastic interaction in piezo** ... - free surface flow and acousto-elastic interaction in piezo inkjet herman wijshoff océ technologies b.v., st.urbanusweg 43, p.o.x 101, 5900 ma venlo, the netherlands, ... acoustic modeling in ansys and matlab involves fluid-structure interaction. cfd modeling ... acousto-elastic interaction and free surface flow. to model **acoustic and electromagnetic wave interaction: analytical** ... - acoustic and electromagnetic wave interaction: analytical formulation for acousto-electromagnetic ... traveling surface acoustic wave. in this approach, object detec- ... before an acousto-electromagnetic detection scheme can be effective, the relationship between the vibrating mechanical ... **introduction to ao modulators and deflectors** - • introduction to acousto-optic modulators and deflectors: ... the top surface of the transducer is then metalized with the transducer shape and size defined ... when the laser beam passes through the acoustic wave in the acousto optic material, the interaction causes the frequency of the light (wavelength λ) to be shifted by an amount equal ... **optical detection of acoustic waves with surface plasmons** - the arriving acoustic wave induces a displacement Δz of the receiving plate surface located in proximity to the gold film. ... schematic of the acousto-optical sensor with surface plasmons. the arrangement consists of a glass prism (pr), an adjacent gold film (gf), a spacer (spa), and a receiving plate (rp). the field **journal of electronic materials, vol. 4, no. 1, 1975 ti3vs** ... - surface waves. the optical transmission is from 0.75 to 10.5 μm , and the indices of refraction range from 3.156 at 0.749 μm to 2.808 at 5.26 μm . these properties make it an attractive candidate for use in acousto-optic and acoustic surface-wave devices. keywords: sulpho-salt, crystal, transmission, optical,

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