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## Mutual Interactions Acoustic Fields Application Micro Transducer

**on the mutual interaction of two gas bubbles in a sound field** - on the mutual, interaction of two gas bubbles in a sound field a. a. doinikov imd s. t. zavtrak institute of nuclear problems, byelorussian state university, bobruiskaya ii, 220050 ... **study on acoustic radiation impedance at aperture of a ...** - arbitrary shape and size of waveguide, interactions between different modes must be taken into account to evaluate sound field in the duct and total acoustic power from its aperture. in this paper we simulated self- and mutual- acoustic impedances of guided modes at the **acoustic devices for particle and cell manipulation and ...** - acoustic devices for particle and cell manipulation and sensing yongqiang qiu 1, han wang 1, christine e. m. demore 1, david a. hughes 2, peter glynne-jones 3, sylvia gebhardt 4, aleksandrs ... **creaktiv systems home measurement service - kemp elektroniks** - creaktiv systems home measurement service - is a milestone in high-end technology. we know that electric and electromagnetic interferences are dramatically reducing acoustic enjoyment in hearing rooms. with the benefit of a unique measurement method\*, which we have adopted from our technology partner gabriel-tech and which is certified in the fields of this method according to iso 9001-2008 ... **doctoral or postdoctoral researcher for experimental work ...** - application of external magnetic or acoustic fields on the discharge. attention is also paid to mutual interactions between plasma and material surfaces. the discharge products involve mainly ozone, nitrogen oxides, other reactive oxygen and nitrogen species, uv radiation, or streams of charged and neutral particles. the aim of the research is to understand and enhance generation (or ... **direct navier-stokes simulation of sounds generated by ...** - direct navier-stokes simulation of sounds generated by shock-vortex / vortex-vortex interactions osamu inoue institute of fluid science, tohoku university 2-1-1 katahim, aoba-ku, sendai 980-8517, japan abstract. flow fields generated by the interactions between a shock wave and vortices and between two vortex rings are simulated numerically, and the generation and propagation mechanisms of ... **10.1088/1361-6463/aa754c - iopsciencep** - ments actually ameliorated acoustic magnetic properties of the marker, e.g. the resonance frequency and the resonance amplitude response of the external excitation was more sensitive for the appropriate number of ribbons [12], the signal strength was boosted by utilizing multiple frame-suspended [10]. this perhaps resulted from interaction between two elements, but it was not yet clear. the ... **prediction of noise generated by electromagnetic forces in ...** - prediction of noise generated by electromagnetic forces in induction motors m.k. nguyen1, ... interactions of the various design parameters and the coupling of the physical fields. in this paper, an overview of the modeling procedure is first given in section 2. then, the governing equations for the electromagnetic, mechanical and acoustic fields are described in sections 3, 4 and 5. some ... **influence of the acoustic entrainment on aerosol particle ...** - particle interactions at acoustic entrainments varying from  $q_p=0.84$  to  $q_p=0.05$ , i.e., covering practically its complete range of variability. it is experimentally confirmed for the first time the presence of the mutual radiation pressure as **probing spin-phonon interactions in silicon carbide with ...** - of the individual spin and mechanical components as well as their mutual interactions. point defects in silicon carbide (sic) offer long-lived, optically addressable spin registers in a wafer-scale material with low acoustic losses, making them natural candidates for integration with high quality factor mechanical resonators. here, we show gaussian focusing of a surface acoustic wave in sic ... **acoustic rainbow trapping - uc berkeley** - acoustic rainbow trapping jie zhu1, yongyao chen2, xuefeng zhu1,3, francisco j. garcia-vidal4, xiaobo yin1, weili zhang2 & xiang zhang1 nsf nano-scale science and engineering center (nsec), 3112 etcheverry hall, university of california, berkeley, california **the author(s) 2016 source using causality method based on ...** - an acoustic analogy analysis based on a decomposition of the source term in lighthill's equation is discussed in light of a large-eddy simulation of a subsonic turbulent jet exhausting from a baseline round nozzle at mach number  $m=0.9$  with reynolds number  $re = 105$ . the decomposed sub-terms show the nonlinear reciprocal interactions of density, velocity, vorticity, and dilatation fields. to ... **numerical simulation of acoustic wake effect in acoustic ...** - mainly include mutual radiation pressure and the acoustic wake effect [5,6,8,9]. the mutual radiation pressure is the effect due to the nonlinear interactions produced between the particle scattering wave and the incident field. however, so far, there is still no experiment to confirm this effect as a cause of agglomeration, and theoretical studies show that the mutual radiation pressure is ... **influence of shock-bubble and bubble-bubble interactions ...** - mutual interactions among bubbles in a liquid are a fundamental problem of cavitation, which must be clarified to understand phenomena such as material damage, noise, and performance drop of hydraulic machinery [1]. recently, the phenomena related to bubble collapse are extended to various fields. for example, the material damage due to cavitation bubble collapse in the liquid-mercury target ...

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