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Autore	Schuller, Wolfgang
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Autore	Schneider S. C.
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Nota di contenuto	1998 IEEE Ultrasonics Symposium -- Silicon micromachined ultrasonic transducers -- Effect of wraparound electrodes on ultrasonic array performance -- A 2.5 MHz phased linear array made from stacked piezoelectric composite -- Defect imaging by micromachined

ultrasonic air transducers -- A new detection method for capacitive micromachined ultrasonic transducers -- Optimization of a sandwich driver structure using Finite Element Analysis -- Measurement of spectral response of ultrasonic probes. Effect of diffraction, lens, and transmitter/receiver circuit -- Dielectric and mechanical absorption mechanisms for time and frequency domain transducer modeling -- Analytic modeling of loss and cross-coupling in capacitive micromachined ultrasonic transducers -- Computer optimization of electromagnetic acoustic transducers -- Calculation of transient wave fields in layered bodies -- On-axis ultrasonic field characteristics of monopole pulse radiated from planar and concave transducers -- BAW wavefront propagation simulations -- Ferroelectric polymer transducers for transverse ultrasonic waves -- Improvement in accuracy of finite modeling for ultrasonic transducers -- Model updating applied to ultrasound piezoelectric transducers -- Transducer material characterization by transmission coefficient measurements -- A two-dimensional transducer array for real-time 3D medical ultrasound imaging -- Nondiffraction beam generated from an annular array driven by uniform velocity amplitude -- Comparison between different finite element/boundary formulations for modeling acoustic radiation in fluids -- Beam-forming using multidimensional sigma-delta modulation -- Novel silicon nitride micromachined wide bandwidth ultrasonic transducers -- Broadband ultrasound transducers using effectively graded piezoelectric materials -- Film bulk acoustic wave filters using lead titanate on silicon substrate.

Sommario/riassunto

The problem of Rayleigh surface wave transmission and reflection by stripes of viscous liquid is considered using a Maxwellian model of viscosity characterised by a single relaxation time. The aim is to interpret experiments on surface acoustic wave monitoring of the wetting of high-energy solid surfaces (G. McHale et al., Furaday. Discuss., 1997, 107, 27-38). These experiments demonstrated a strong oscillatory behaviour of both transmission and reflection coefficients as the area occupied by the liquid increased with time. The variable thickness of the liquid is taken into account and analmcal results and numerical calculations are presented.