



Rayleigh -Wave Theory and Application

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of an International Symposium Organised by The Rank Prize Funds at The Royal Institution, London, 15-17 July, 1985 | Organised by the Rank Prize Funds | There is no respect for mere age in Science or Technology. Yet the centenary of the discovery, by the third Lord Rayleigh, that elastic waves can be guided by a surface, is memorable for the contradictions which it encompasses: Rayleigh's assessment of his classic 1885 paper as a rather minor mathematical development with a potential value only in seismology on the one hand; on the other the rediscovery of the subject in a totally that of electronic signal processing - which has led to its different explosive growth over the last twenty years. The new surface acoustic wave (SAW) devices have proved to be per electronic components. Today almost all television receivers contain one or more SAW filters, sophisticated radars depend on SAW signal processing, and SAW devices have been incorporated in ultra-high performance opto-electronic systems. With the objective of surveying these developments and attempting to predict those that can be foreseen, as well as marking the centenary of Lord Rayleigh's...



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