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Acoustoelectric Conversion Function: Properties and Computation

Outline

1. Definition of the Acoustoelectric Conversion Function
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   1.2. Acoustoelectric conversion in the quasi-static approximation

2. Unapodized Periodic SAW Transducers
   2.1. Basic structure and guard electrodes
   2.2. Contribution of the guard electrodes to the acoustoelectric conversion
   2.3. Finger and gap taps
   2.4. Element factor properties
   2.5. Misusing finger taps

3. Apodized Periodic SAW Transducers
   3.1. Basic assumptions
   3.2. Generalization of the finger and gap taps