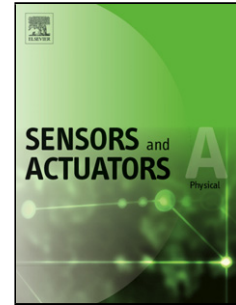


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A new equivalent circuit for piezoelectrics with three losses and external loads

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