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On the total electro-mechanical potential energy and energy release rate at the interface crack tips in an initially stressed sandwich plate-strip with piezoelectric face and elastic core layers

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**Highlights:**

- pre-stressed sandwich plate with piezoelectric face+elastic core layers is examined
- the energy release rate (ERR) at the interface crack tip in this plate is studied
- exact linearized equations of the theory of piezoelectricity is employed
- numerical results are obtained by employing the FEM
- the influence of the problem parameters on the ERR is discussed

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