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Three-dimensional fundamental solution of a penny-shaped crack in an infinite thermo-magneto-electro-elastic medium with transverse isotropy

Pei-Dong Li, Xiang-Yu Li, Guo-Zheng Kang, Ralf Müller

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**Highlights**

- A penny-shaped crack problem in thermo-magneto-electro-elasticity is solved.
- The electro-magnetic properties of the crack surface are thoroughly considered.
- 3D coupled field is exactly obtained in terms of elementary functions.
- Important physical quantities in fracture mechanics are explicitly obtained.

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