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An accurate and efficient method for the piezoelectric coated functional devices based on the three-dimensional Green's functions under a tangential point force

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**Highlights**

- The peak value of the electric field components can be accurately determined.
- The best thickness of piezoelectric functional devices can be obtained.
- An accurate criterion for the reliability design of functional devices is given.
- The multi-point output of the piezoelectric functional devices can be designed.

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