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Semiconductor devices - Measurement and evaluation methods of kinetic energy harvesting devices under practical vibration environment - Part 2: Human arm swing motion

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Semiconductor devices - Measurement and evaluation methods of kinetic energy harvesting devices under practical vibration environment - Part 2: Human arm swing motion

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Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

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– reconfirmed,

– withdrawn, or

– revised.

1 Scope

This part of IEC 63150 specifies terms and definitions, and test methods that can be used to evaluate and determine the performance characteristics of kinetic energy harvesting devices for human arm swing motion. Such kinetic energy harvesting devices often have a rotor with eccentric mass to efficiently capture kinetic energy at very low frequency range, but this document is not limited to rotational energy harvesters. These have different power generation mechanisms (such as electromagnetic, piezoelectric, electrostatic, triboelectric, etc.) with different working principles, and their performance is evaluated with motions relevant to human arm swing, in which large-amplitude low-frequency external mechanical excitations prevail.

2 Normative references

There are no normative references in this document.