

A Virtual Solar Cell functional Tester System Based on Modified from Interval Type-2 Fuzzy Logic Controller

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ABSTRACT

The most elementary of cell characterisation techniques is that the mensuration of cell potency. Standardised testing permits the comparison of devices factory-made at totally {different/completely different} firms and laboratories with different technologies to be compared. This paper presents a replacement style of cell testers for monocrystalline, crystalline, metallic element chemical compound (CdTe), and copper metal diselenide (CIS) cells. every cell is tested for potency and classified consequently into four teams (A to D). A computer game (VR) model was designed to simulate the system, keeping in mind planet constraints. 2 photoelectrical sensors were accustomed create detections for each the testing method and also the mechanism movement. Solar cell, technical name electrical phenomenon (PV), is that the booming technology that converts daylight (Including visible or immoderate violet radiation) into electricity. because of today's growing demand for inexperienced energy, the cell is more and more employed in several areas, like buildings, infrastructure and even mobile devices, as these industries become additional eco-conscious. the look of virtual cell tester in keeping with sensible testing values supported MIT2-FC is incredibly correct and it's several benefits over ancient/the normal/the standard} tester and from the simulation results will terminated that: it's ability to use testing method twist quicker than traditional tester, as a result of the interval is a smaller amount than 0.5 price. it's ability to manage many varieties at constant time as a result of it's ability to memorized the information base and apply the procedures of testing with any style of cell arbitrarily

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