

Circuit boards are one of the key elements of the electronics industry. Because of its demand for portable electronic goods, the production of circuit boards has become more significant. The ...

Article "Capacitor Detection in PCB Using YOLO Algorithm" Detailed information of the J-GLOBAL is an information service managed by the Japan Science and Technology Agency (hereinafter referred to as "JST"). It provides free access to secondary information on researchers, articles, patents, etc., in science and technology, medicine and pharmacy.

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Few effective insulation state detection methods for power capacitor can be used in field. In this paper, a power capacitor insulation state detection method based on polarization-depolarization current is proposed. Firstly, the basic principles of the method are discussed. Then, two characterized parameters are conducted based on polarization and depolarization currents, ...

This paper proposes a capacitor detection method based on YOLO algorithm for printed circuit board (PCB) assembly. YOLO is a kind of fast object detection method based on convolutional neural network (CNN). The deep network architecture of CNN can detect discrimination features from all of the input images, so we do not need experts to define ...

The polarity of the capacitor is detected by comparing the image features of the target capacitor. Experimental results show that the algorithm proposed in this paper can effectively detect two kinds of defects: capacitor missing and capacitor polarity opposite. The algorithm can be applied to the AOI detection of PCB before and after wave ...

The cascaded H-bridge (CHB) static synchronous compensator (STATCOM) has been widely used in wind farm and conflux station. As the grid-connected voltage increases, the number of CHB proportionately increases. In order to achieve the capacitor voltage balance, it is necessary to independently detect the capacitor voltage of all H-bridge cells, which raises the cost of ...

Understanding the aging mechanisms of electronic components is critical in power electronic converters. Capacitors are crucial components to monitor as they contribute to approximately 30% of electronic component failures in power electronic converters. The paper introduces a novel approach that utilizes a neuro-inspired Hierarchical Temporal Memory (HTM)-based machine ...

Focused on the problems that capacitor branches parameters cannot be calculated with unknown neutral point voltage, a shunt capacitor detection method based on intelligent substation is proposed in this paper. Using the

information from intelligent substation, basic equation of shunt capacitor is firstly constructed in consideration of capacitor operating characteristics. Then, ...

The design of a low-power differential Switched-Capacitor (SC) amplifier for processing a fully-differential input signal coming from a pressure sensor interface is reported. ...

As the scale of power systems continues to expand, it is often necessary to switch capacitors to ensure the normal operation of the distribution network. Howeve

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