

Intelligent Quality Assurance for IoT-compatible Hybrid Optoelectronic Cables

Discover how IoT-enabled smart sensors are transforming mechanical quality assurance with real-time data, enhancing defect detection and predictive maintenance.

This hybrid integration technology with wire-free interconnections methods reduces the traditional wire-bond interconnection resistance, improves the signal quality of optoelectronic detectors and ...

Advances in intelligent fiber-optic microfluidic-embedded technologies for empowered sensing performance: a review Shadab Dabagh, Rukmani Singh, Claudia Borri, Hamed Ghorbanpoor, Golar ...

The main objective is to address the critical challenges at the intersection of sensor technology and food industry needs, including real-time, inline quality and safety assurance, smart sensor network design, ...

Power Quality Analysers (PQA) play an essential role in managing the health of electrical systems by measuring all fluctuations in real-time. This study focuses on the experimental analysis...

As an outlook, the potential of perovskite and 0D metal halide materials, which are currently the most studied, for enhancing optoelectronic performance and stability is discussed.

The Age of Information (AoI) emerges as a critical metric in this context, representing the freshness of the information transmitted across the network. This paper studies hybrid IoT networks that employ ...

Smart manufacturing had a high impact in recent years within the inspection and quality assurance processes, providing innovative technologies in machine learning.

Herein, a comprehensive review of emerging integration or hybridization of inorganic semiconductor materials with organic materials from their individual components, and assembly ...

In recent years, AI techniques have been increasingly integrated with OFS systems for system-level optimization. In this paper, we classify the applications of AI in OFS into two distinct ...

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