

论文

高光谱图像技术在农产品检测中的应用进展

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摘要:

综述了高光谱图像技术在农产品品质和食用安全性检测方面的研究现状及其在无损检测中的应用进展。在此基础上,提出了利用高光谱图像技术检测农药残留的解决途径,对高光谱图像技术在生物医学信息检测和农药残留检测中的应用前景进行了展望,指出高光谱图像技术是生物组织功能信息分析的一种新方法,是符合我国农产品产销特点的农药残留检测的潜力技术,可保障农产品质量和安全。

关键词: 无损检测;高光谱图像;农产品品质;农药残留

Application of hyper-spectral image technology in detecting agricultural product

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Abstract:

Current research status on application of hyper-spectral image technology in the quality of agricultural product and food safety as well as its application in non-destructive detection is reviewed. A method to detect the pesticide residue is provided using hyper-spectral image technology. Its potential application in biomedical information detection and pesticide residue detection is predicted. Hyper-spectral image technology is a new method to biological tissue function information analysis and a potential technology to detect the pesticide residue in agricultural product, which is a serious food safety problem in China.

Keywords: non-destructive detection;hyper-spectral image;quality of agricultural product;pesticide residue

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