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MEDICAL INSTRUMENTATION Application and Design FOURTH EDITION John G. Webster, Editor  
Contributing Authors John W. Clark, Jr. Rice University

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A medical device is any item promoted for a medical purpose that does not rely on chemical action to achieve its intended effect [Medical Device Amendments (Public law 94 -295)] i.e., any electrical or mechanical device for medical applications

### **Medical Instrumentation - Michigan State University**

Biomedical Instrumentation B18/BME2 Biomedical Instrumentation A. Intro & ECG B18/BME2 Dr Gari Clifford (Based on slides from Prof. Lionel Tarassenko) ... Medical Instrumentation: Application and Design, 3rd Edition, by John G. Webster (Editor), December 1997, ISBN: 0-471-15368-0 .

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He is the editor of one of the most widely used text in biomedical engineering: Medical Instrumentation: Application and Design, Third Edition (Wiley). In addition, he has developed 18 other books, including the Encyclopedia of Medical Devices and Instrumentation (Wiley), and about 150 research papers.

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Medical instrumentation also require intelligent controller for more sophisticated facilities to improve the performance [1]. Behind the intelligent system there is an intelligent controller plays an important role. In the block diagram shown in figure 1, the medical instrumentation application requires sensor for sensing

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