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Koyama, M.; Akaike, K.; Aizawa, H.; Kurosawa, S.; [Frequency Control Symposium and Exposition, 2004. Proceedings of the 2004 IEEE International 23-27 Aug. 2004](#) Page(s):813 - 816  
Digital Object Identifier 10.1109/FREQ.2004.1418572  
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- 2. Does an electronic circuit breaker need electrical contacts?**  
Meckler, P.; Ho, W.; [Electrical Contacts, 2004. Proceedings of the 50th IEEE Holm Conference on Electrical Contacts and the 22nd International Conference on Electrical Contacts](#)  
2004 Page(s):480 - 487  
Digital Object Identifier 10.1109/HOLM.2004.1353160  
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- 3. A new method, using the graph theoretical approach, for obtaining symbolic state equations of linear electronic circuits**

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1. Behavior-mode simulation of power electronic circuits  
Jin, H.;  
Power Electronics, IEEE Transactions on  
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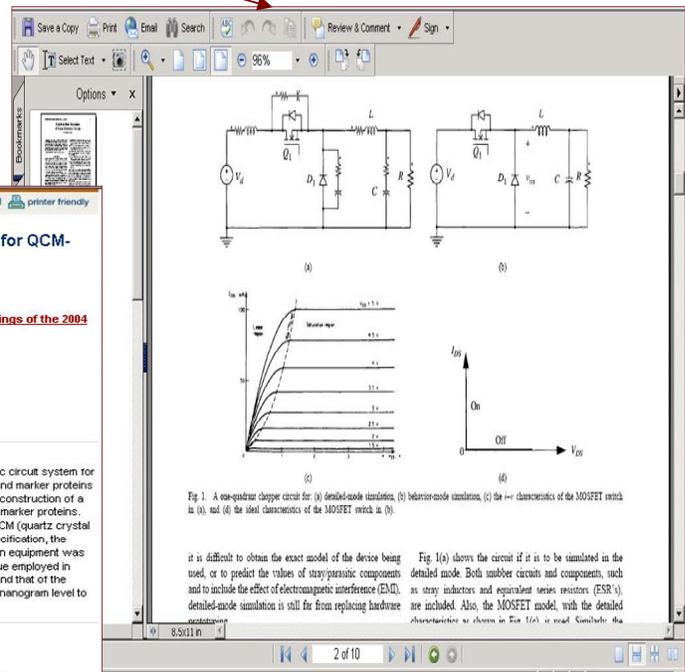
Koyama, M., Aikawa, K., Aizawa, H., Kurozawa, S.  
Nihon Dempa Kogyo Co., Ltd, Saitama, Japan  
This paper appears in: **Frequency Control Symposium and Exposition, 2004, Proceedings of the 2004 IEEE International**  
Publication Date: 23-27 Aug. 2004  
On page(s): 813 - 816  
Number of Pages: xxiii+816  
ISSN: 1075-6787  
INSPEC Accession Number: 0504100  
Digital Object Identifier: 10.1109/FREQ.2004.1418572  
Posted online: 2005-04-18 09:12:11.0

**Abstract**  
The paper describes a high sensitivity mass measurement system equipped with an electronic circuit system for biosensors which are used for the detection of dioxins and PCBs, environmental pollutants, and marker proteins for infections. Improvement of the oscillation frequency stability of a QCM is important for the construction of a biosensor with high sensitivity to detect disease viruses, bacteria, dioxins, PCBs, and stress marker proteins. The authors have developed a novel electronic circuit system that can be used to realize a QCM (quartz crystal microbalance) biosensor with highly mass sensitivity at the picogram level. As for design specification, the design technology of the crystal resonator and electronic circuit system for telecommunication equipment was applied. Oscillation frequency of the QCM was 8.93 MHz. A frequency measurement technique employed in telecommunication was used. The oscillation frequency stability for the QCM was 5 ppb/h, and that of the average value was 1 ppm/h. This implies that the mass sensitivity of QCM extended from the nanogram level to the picogram level.

**Index Terms**  
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biosensors; crystal resonators; frequency measurement; frequency stability; mass measurement; microbalances; nonlinear network synthesis

**Non-controlled Indexing**  
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