

Sonderkolloquium

Am Montag, dem 25. Mai 2009, um 16:15 Uhr hält

Prof. Zhonghe Jin
Department of Information Science & Electronic Engineering,
Zhejiang University, Hangzhou, China

einen Vortrag mit dem Titel

Micro-Resonator on Silicon Substrate

Der Vortrag findet im OFFIS, Escherweg 2, Konferenzraum F02 statt.

Short Summary

Owing to the small form factors, CMOS integrability, low cost, and low power operation, micro-resonators on silicon substrate by micro-fabrication technology have been focus of many studies due to the potential for various sensors and high-frequency devices. Two kinds of micro-resonators are studied in Prof. Jin's group, including micro-electromechanical (MEMS) resonators and micro-optical-ring (MOR) resonators.

In his talk, Prof. Jin will introduce the structure, driving and detecting method, fabrication process and the characterization for the MEMS resonators with dimension from several ten nanometers to several hundred microns. The application of such MEMS resonators in MEMS gyroscope and accelerometer will also be presented in the talk.

The MOR resonator is a ring wave-guide on silicon substrate. It is the basic devices for a micro optical gyroscope. It will be introduced in Prof. Jin's talk, that the performance of the MOR resonator characterized by an optical phase lock loop, detecting and analyzing various kinds of optical noise in the MOR resonator.

Short CV of Prof. Zhonghe Jin

Prof. Zhonghe Jin received the B.S. degree and the M.S. degree in 1991 and 1994, respectively, both from the Department of Information Science and Electronic Engineering (ISEE), Zhejiang University (ZJU). From 1995, he worked as a research assistant for his PhD degree in the Department. During 1996 and 1998, he worked as a visiting scholar in the Department of Electrical and Electronic Engineering, Hong Kong University of Science and Technology. At 1998, he obtained his PhD degree with Horner in ZJU. After that, he joins the ISEE Department, ZJU. He gained his professor position at 2002.

The research interesting of Prof. JIN includes micro/nano-electromechanical (MEMS/NEMS) resonator, gyroscope, accelerometer, and micro-satellites. He is the author or co-author of above 100 papers.

Eingeladen von: Prof. Dr.-Ing. habil. Sergej Fatikow

Weitere Kolloquiumstermine sind im WWW abrufbar.