北京大学物理学院凝聚态物理与材料物理所

凝聚态物理-北京大学论坛

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2011年第01期

纳米加工技术的发展现状与挑战

刘明 研究员

时间:3月3日(星期四)15:00-16:40 地点:北京大学物理大楼中212教室

Abstract: Nanofabrication is playing an ever increasing role in science and technology on the nanometer scale and will soon allow us to build systems of the same complexity as found in nature. Top-down methods that emerged from microelectronics are now not only used for the fabrication of structures for integrated circuits, microelectro-mechanical systems, but also for micro-optics and diverse nano-devices. In this talk, an overview of some of these methods was presented, paying particular attention to those which enable large-scale production of lithographic patterns. After reviewing the various patterning techniques, we discuss some recent application issues in the fields of microelectronics, optical elements, as well as in mano-device.

刘明: 中国科学院微电子研究所研究员, IEEE 高级会员。从事纳米加工、纳米电子器件、新型存储器等方面的研究工作,主持了多项重大专项、973、863、自然基金项目。发表学术论文180余篇,合作著书3本,获得/申请专利90项,多次在国际会议上做邀请报告。2004年获国务院政府津贴,2008年国家杰出青年基金获得者,获得国家发明二等奖2次、科技进步二等奖1次。

