

<<现代磁性材料原理和应用>>

图书基本信息

书名：<<现代磁性材料原理和应用>>

13位ISBN编号：9787502540036

10位ISBN编号：7502540032

出版时间：2002-11

出版时间：化学工业出版社

作者：.

页数：715

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

作者简介

Robert C. O'Handley, a former research scientist in the Department of Materials Science and Engineering (DMSE), died on Saturday, March 9. He was 70.

In 1981, O'Handley came to MIT as a research scientist working with Professor Nick Grant on applications of metallic glasses. Prior to MIT, he was an NRC Postdoctoral Fellow at the Michelson Laboratory in China Lake, Calif., from 1971 – 74, then worked for four years at Allied Chemical Corporation on its amorphous metals development program, and then moved to IBM ' s Watson Lab for a three-year position as staff scientist. O'Handley's primary research focus at MIT was ferromagnetism and applications of ferromagnetic materials. In addition to ferromagnetic metallic glasses, his work focused on surface and thin-film magnetism, magnetic thin-film devices, active materials, and applications of materials in energy absorption and energy harvesting. O'Handley ' s research projects engaged an impressive number of faculty colleagues as collaborators, including Grant, Keith Johnson, Gretchen Kalonji, Manny Oiveria, Carl Thompson, Sam Allen, Caroline Ross, Yet-Ming Chiang, David Paul, Steve Hall and Jagadeesh Moodera.

O'Handley's academic background was in physics: After receiving a BA from Marist College in 1965, he taught for two years as a Marist Brother in a New York City high school and then changed his career plan, completing an MS and PhD at the Polytechnic University (formerly the Polytechnic Institute of Brooklyn). His publications include nearly 200 articles in refereed journals, 20 patents, scores of conference proceedings, invited lectures and review articles. He is the author of the textbook, "Modern Magnetic Materials: Principles and Applications" (Wiley, 1999), an outgrowth of the graduate class, 3.45 Magnetic Materials, that O'Handley developed and taught alternate years from 1990 to 2008.

He contributed to DMSE ' s educational programs through classroom and laboratory teaching and research supervision of undergraduate and graduate students. Many visitors, including three Fulbright Scholars, were hosted in his laboratory over the years. O'Handley retired from MIT in 2008, at which time he continued an active research role at Ferro Solutions — a wireless power transfer, sensors and energy harvester company he co-founded in 2002 — while dedicating his energy to his family and to studying classical piano.

<<现代磁性材料原理和应用>>

书籍目录

- 第一章 导论和综述
- 第二章 静磁学
- 第三章 磁性的经典和量子唯象学论
- 第四章 原子和氧化物的量子力学、磁性和交互作用
- 第五章 金属的量子力学、磁性和成键
- 第六章 磁各向异性
- 第七章 磁致弹性效应
- 第八章 磁畴壁和磁畴
- 第九章 磁化过程
- 第十章 软磁材料
- 第十一章 非晶态材料—磁性与无序
- 第十二章 小结构中的磁性—交换耦合和纳米晶
- 第十三章 硬磁材料
- 第十四章 磁场退火和方向有序
- 第十五章 磁性材料中的电子运输
- 第十六章 表面和薄膜的磁性
- 第十七章 磁记录

<<现代磁性材料原理和应用>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>