


[DOWNLOAD](#)


## Graphene/ graphene oxide doped Magnesium diboride superconductors

By Kaludewa Sujeeva De Silva

LAP Lambert Academic Publishing Nov 2013, 2013.

Taschenbuch. Book Condition: Neu. 220x150x9 mm. Neuware - Owing to the high critical temperature ( $T_c$ ) of 40 K, intrinsically weak-link free grain boundaries, and low fabrication cost,  $MgB_2$  is believed to be promising for replacing conventional low  $T_c$  superconductors in many cryogen- free applications. Nevertheless, its rapid drop in critical current under applied magnetic field and low critical field exclude it from many industrial applications where a high critical current density ( $J_c$ ) under high magnetic field is required. Many studies have shown that carbon containing dopants are effective means to enhance the field dependence of  $J_c$  and the upper critical field ( $H_{c2}$ ) of  $MgB_2$ . This book describes extensive research efforts towards the improvement of the superconducting properties of  $MgB_2$  through graphene/ graphene oxide doping and explains the improvements in relation to the electromagnetic behaviour. This book further describes experimental details of graphene/graphene oxide production techniques. Therefore, this book should be of interest to a broad range of multidisciplinary researchers dealing with graphene,  $MgB_2$  superconductor, and their performances. 156 pp. Englisch.



**READ ONLINE**

[ 9.7 MB ]

### Reviews

*The book is great and fantastic. It usually does not price excessive. I am happy to tell you that this is the greatest ebook i actually have read during my personal existence and can be he very best ebook for possibly.*

-- **Abbie Feest**

*A must buy book if you need to adding benefit. It can be rally exciting throgh reading time. I am pleased to let you know that this is the greatest publication we have read through during my very own life and may be he best publication for possibly.*

-- **Mr. Kade Rippin**