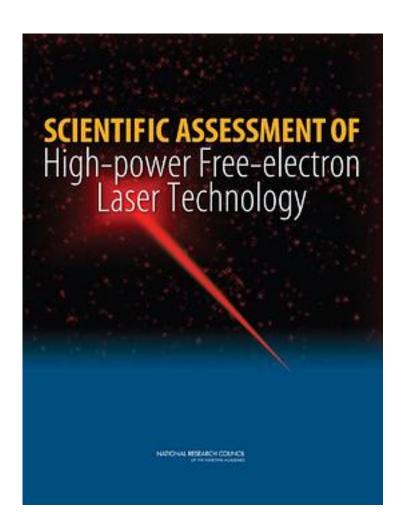
## Scientific Assessment of High-Power Free-Electron Laser Technology



Scientific Assessment of High-Power Free-Electron Laser Technology\_下载链接1\_

著者:Not Available (NA)

出版者:

出版时间:2009-3

装帧:

isbn:9780309126892

This book presents a scientific assessment of free-electron-laser technology for naval

applications. The charge from the Office of Naval Research was to assess whether the desired performance capabilities are achievable or whether fundamental limitations will prevent them from being realized. The present study identifies the highest-priority scientific and technical issues that must be resolved along the development path to achieve a megawatt-class free-electron laser. In accordance with the charge, the committee considered (and briefly describes) trade-offs between free-electron lasers and other types of lasers and weapon systems to show the advantages free-electron lasers offer over other types of systems for naval applications as well as their drawbacks. The primary advantages of free-electron lasers are associated with their energy delivery at the speed of light, selectable wavelength, and all-electric nature, while the trade-offs for free-electron lasers are their size, complexity, and relative robustness. Also, Despite the significant technical progress made in the development of high-average-power free-electron lasers, difficult technical challenges remain to be addressed in order to advance from present capability to megawatt-class power levels.

作者介绍:
目录:
Scientific Assessment of High-Power Free-Electron Laser Technology_下载链接1_
标签
评论
 Scientific Assessment of High-Power Free-Electron Laser Technology_下载链接1_
<b>书</b> 评