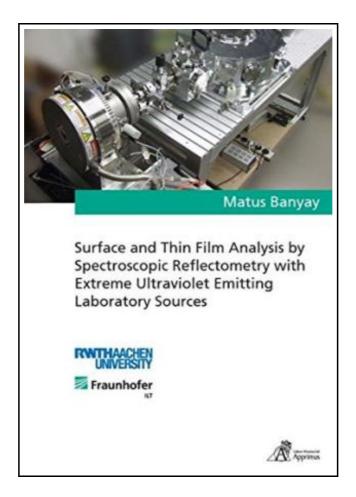
Surface and Thin Film Analysis by Spectroscopic Reflectometry with Extreme Ultraviolet Emitting Laboratory Sources



Filesize: 3.42 MB

Reviews

If you need to adding benefit, a must buy book. It really is writter in straightforward words and phrases rather than difficult to understand. Your life period is going to be change the instant you total reading this ebook.

(Letha Okuneva)

SURFACE AND THIN FILM ANALYSIS BY SPECTROSCOPIC REFLECTOMETRY WITH EXTREME ULTRAVIOLET EMITTING LABORATORY SOURCES



Apprimus Wissenschaftsver Jul 2011, 2011. Taschenbuch. Book Condition: Neu. 208x146x10 mm. Neuware -Methods to investigate thin-films or surfaces using electromagnetic radiation can be traced back many decades. Some methods are even more than a hundred years old, such as ellipsometry or reflectometry. Their potential has been recognized by the industry and remained one of the main workhorses for many applications. With the invention of the laser in the 60s, more sophisticated metrology methods became available and known optical, non-destructive, techniques could be improved. Probably the worlds economically and technologically most important material so far, silicon, has created an enormous industry that is ever more in the need for laboratory based tools to characterize e.g. wafers, masks or thin-films. As the downsizing of devices continues even further, classical techniques in the visible range are reaching their limit. Hence, it becomes necessary to push some of the known methods towards shorter wavelengths well below 100 nm. The use of extreme ultraviolet radiation (XUV) enables a variety of new optical and analytical techniques, e.g. in lithography, microscopy and reflectometry. Although this radiation has been a strong domain of synchrotron sources so far, there is an increasing industrial and scientific progress in the development of laboratory-sized XUV light sources. This opens up new possibilities for in-laboratory tools mimicking some of the known techniques from accelerators and transferring them straight to the user. In this work, spectroscopic reflectometry based on laboratory extreme ultraviolet sources for metrology applications is studied. A realized prototype utilizing XUV radiation from a compact plasma discharge source was built for demonstration experiments that underline the capability of the novel technique. Such a method shows great potential especially for the analysis of ultra-thin films, or interlayers, with thicknesses well below 10 nm. High sensitivity to thickness, roughness and chemical changes in...

- Read Surface and Thin Film Analysis by Spectroscopic Reflectometry with Extreme Ultraviolet Emitting Laboratory Sources Online
- Download PDF Surface and Thin Film Analysis by Spectroscopic Reflectometry with Extreme Ultraviolet Emitting Laboratory Sources

Relevant Kindle Books



NIV Soul Survivor New Testament in One Year

Paperback. Book Condition: New. Not Signed; 'The whole Bible, in just one year? You've got to be kidding.' Don't panic! How about just the New Testament to start off with? Take thousands of young people...

Read PDF »



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Read PDF »



Everything Ser The Everything Green Baby Book From Pregnancy to Babys First Year An Easy and Affordable Guide to Help Moms Care for Their Baby And for the Earth by Jenn Savedge 2009 Paperback

Book Condition: Brand New. Book Condition: Brand New.

Read PDF »



Li Xiuying preschool fun games book: Lingling tiger awesome (connection) (3-6 years old)(Chinese Edition)

paperback. Book Condition: New. Paperback. Pub Date: 2010. Pages: 30 Language: Chinese in Publisher: Time Publishing and Media Co. Ltd. Anhui Children's Publishing House Hi. you do! I called Lingling Tiger. my vision is to...

Read PDF »



TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2) (Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Read PDF »