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Chemical-Mechanical Planarization

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Chemical Mechanical Planarization Volume 767 Mrs Proceedings

Yijin Wang



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Chemical-Mechanical Planarization: Volume 767 Duane S. Boning, 2003-08-27 Chemical mechanical planarization CMP has emerged as a critical fabrication technology for advanced integrated circuits Even as the applications of CMP have diversified and we have begun to understand aspects of the physics and chemistry of the process a new generation of CMP innovations is unfolding New slurries and consumables are under development New applications to novel devices continue to appear This book the most recent in a successful series on CMP offers a review of the advances to date and provides a comprehensive discussion of the future challenges that must be overcome Presentations from academia government labs and industry are featured Topics include CMP modeling CMP science CMP slurries and particles for planarization of copper oxide and other materials planarization applications including shallow trench isolation STI copper damascene and novel devices and CMP integration **Advances in Chemical-Mechanical Polishing: Volume 816** Materials Research Society.

Meeting, 2004-09 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners This book first published in 2004 presents advances in fundamental understanding development and applications of chemical mechanical polishing CMP *Chemical-Mechanical Planarization:* Duane S. Boning, Katia Devriendt, Michael R. Oliver, David J. Stein, Ingrid Vos, 2014-06-05 Chemical mechanical planarization CMP has emerged as a critical fabrication technology for advanced integrated circuits Even as the applications of CMP have diversified and we have begun to understand aspects of the physics and chemistry of the process a new generation of CMP innovations is unfolding New slurries and consumables are under development New applications to novel devices continue to appear This book the most recent in a successful series on CMP offers a review of the advances to date and provides a comprehensive discussion of the future challenges that must be overcome Presentations from academia government labs and industry are featured Topics include CMP modeling CMP science CMP slurries and particles for planarization of copper oxide and other materials planarization applications including shallow trench isolation STI copper damascene and novel devices and CMP integration

Chemical-Mechanical Planarization: Volume 867 Materials Research Society. Fall Meeting, 2005-07-19 Technology requirements associated with the progressive scaling of devices for future technology nodes coupled with the aggressive introduction of new materials places tremendous demands on chemical mechanical polishing The goal of this 2005 book which is part of a popular series from MRS is to bring together experts from a broad spectrum of research and technology groups currently working on CMP to review advances made and to offer a comprehensive discussion of future challenges that must be overcome The book shows trends in the development of consumables process modules tool designs process integration modeling defect characterization and metrology Topics include planarization processes and applications consumables CMP pads and slurries CMP equipment and metrology and CMP modeling and simulation *Proceedings of the World Tribology Congress III--2005*, 2005 **Solid-state Chemistry of Inorganic Materials**, 2005 Schumann

Metallographie Heinrich Oettel, Gaby Ketzer-Raichle, 2024-12-27 Das Standardwerk der Metallographie in der vollständig bearbeiteten und ergänzten 16. Auflage Die Metallographie gehört zu den klassischen Bereichen der Werkstoffwissenschaft Man versteht darunter die Untersuchung von metallischen Werkstoffen mit verschiedenen meist bildgebenden mikroskopischen Verfahren um Informationen über die Struktur und vor allem das Gefüge der Werkstoffe zu erlangen Gefüge und Mikrostruktur einschließlich der chemischen Zusammensetzung eines Werkstoffes geben Aufschlüsse über seine Entstehung und Verarbeitung die Eigenschaften und Qualitätsparameter aber auch über aufgetretene Fehler und Schädigungen des gefertigten Werkstoffes Heinrich Oettel Freiberg und Gaby Ketzer Raichle Aalen haben an der bewährten Gliederung des Schumann festgehalten Strukturelle Grundlagen optische und elektronenoptische Mikroskopie einschließlich Beugungsverfahren Phasengleichgewichte Zustandsdiagramme Phasenumwandlungen Technische Gefügebildung Gefüge von wichtigen insbesondere metallischen Werkstoffgruppen Praxisnah führt das Buch in die relevanten Grundlagen der Metallographie ein und stellt die Präparations- und Untersuchungsverfahren vor die für die tägliche Arbeit benützt werden Zum Verständnis und zur Interpretation der vielfältigen Gefügeausbildungen gibt das Buch einen umfassenden Überblick über Phasengleichgewichte und Zustandsdiagramme bevor ausführlich der Einfluss von Verarbeitung und Behandlung auf verschiedene Materialsysteme diskutiert wird Bewährtes Konzept und stark bearbeitete Inhalte Methoden Materialien und Technik auf den neuesten Stand gebracht wofür das Wissen eines noch breiteren Autorenkreises einbezogen wurde Bessere Verständlichkeit und aktuelle Themen wie künstliche Intelligenz additive Fertigung Funktionswerkstoffe für die Erzeugung und Speicherung elektrischer Energie Konsequente Praxisorientierung auf solidem Fundament der Kristallographie und Gefügelehre der Präparation und der Untersuchungsmethoden bis hin zu Fragestellungen der Werkstofftechnologien Noch attraktivere Ausstattung Die 16. Auflage des Schumann im Großformat ist nun vierfarbig zahlreiche Strichzeichnungen und Gefügebilder wurden neu erstellt Schließlich setzt auch der neue Schumann konsequent auf seine schon immer große Stärke die umfangreiche Darstellung und Interpretation der Gefüge von Eisen und Eisenlegierungen sowie von Nichteisenmetallen ergänzt von Keramiken und Verbunden Sie machen nun vierfarbig den Hauptteil des Anschauungsmaterials aus

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