

Substrate Engineering: Volume 587: Paving the Way to Epitaxy (Materials Research Society Symposium Proceedings)



Epitaxial growth has always been a marriage of convenience between film and substrate. More and more frequently, however, it is impractical to use the same material for both film and substrate because it is not available as large single crystals, it is prohibitively expensive, or its properties are ill-suited for the intended application. To meet these challenges, many strategies have been pursued to achieve highly oriented or single-crystal thin films via epitaxy. Crystalline films have been mechanically bonded to other materials to form composite substrates. Crystals have been cut and rewelded, patterned and regrown, buffer layered and repolished. Each strategy has met with fundamental challenges including lattice mismatch, chemical incompatibility, differences in thermal expansion, and structural dissimilarity. This book, first published in 2000, focuses on developments in novel substrate engineering which enable improved epitaxy. Topics include: biaxially textured substrates for high-Tc-coated conductors; surfaces for oxide epitaxy; wafer bonding and lift off; lattice mismatch engineering; substrate engineering and solid-phase recrystallization and epitaxy.

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English. **Substrate Engineering--paving the Way to Epitaxy - Google Books** Volume, 587 Event, Substrate Engineering Paving the Way to Epitaxy - Boston, MA, USA In Materials Research Society Symposium - Proceedings (Vol. **Patent EP1614775A3 - Method of improving surface - Substrate Engineering (MATERIALS RESEARCH SOCIETY - Saxo** Substrate Engineering--paving the Way to Epitaxy: Symposium Held Volume 587 of Materials Research Society symposia proceedings, ISSN 0272-9172 **Nondestructive Methods for Materials Characterization - Assets** Substrate Engineering: Volume 587: Paving the Way to Epitaxy e un libro a cura di David Collana: Materials Research Society Symposium Proceedings. **MBE growth and ultrahigh temperature processing of high-quality** Method of improving surface flatness of group-III nitride crystal, substrate for epitaxial GaN epitaxy, SUBSTRATE ENGINEERING - PAVING THE WAY TO EPITAXY U.S.A [MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS], 587, 29 November 1999 (1999-11-29), pages O7.4.1 - 7.4.6, XP002570963, **ETH - PNM - Publication list - Physics of New Materials** Materials Research Society symposium proceedings v. 625 .. Volume 587 Substrate EngineeringPaving the Way to Epitaxy, D. Norton, D. Schlom, **contents - Assets - Cambridge University Press** December 1999 (1999-12-03), Substrate Engineering - Paving the Way to Epitaxy. Symposium (Materials Research Society Symposium Proceedings Vol.587) **Patent EP1178129A4 - Polycrystalline thin film and method - Google** Substrate Engineering: Volume 587 : Paving the Way to Epitaxy. Hardback Hardback Materials Research Society Symposium Proceedings English. **Si/SiC UHV direct wafer bonded interface structure Arizona State** Dec 19, 2007 Polycrystalline thin film and method for preparation thereof, and have a film thereon of a polycrystalline substrate (A) and comprises a cubic system 1999 (1999-12-03), Substrate Engineering - Paving the Way to Epitaxy. 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Volume 587 Substrate EngineeringPaving the Way to Epitaxy, D.P. **Si/SiC UHV direct wafer bonded interface structure UT Dallas** Substrate Engineering--paving the Way to Epitaxy: Symposium Held November Volume 587 of Materials Research Society symposium proceedings: Materials **Fiber textures of titanium nitride and hafnium nitride thin films** Sep 25, 2000 Materials Research Society Symposium Proceedings #587: Substrate Engineering--Paving the Way to Epitaxy: Volume 587 available in on **Materials Research Society Symposium Proceedings #587** Substrate Engineering : Volume 587: Paving the Way to Epitaxy (David Norton) at Series: Materials Research Society Symposium Proceedings #284. 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