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Titolo	Formation of silicon nitride from the 19th to the 21st century : a comprehensive summary and guide to the world literature // Raymond C. Sangster ; updated and revised by David J. Fisher
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Descrizione fisica	1 online resource (1001 p.)
Collana	Materials Science Foundations ; ; Volumes 84-85
Disciplina	666
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Formation of Silicon Nitride from the 19th to the 21st Century; Preface; Table of Contents; Part A: In the Beginning; Part B: Technical Context of Silicon Nitride Formation; Part C: Si ₃ N ₄ Products, Uses and Markets; Part D: Si ₃ N ₄ by Reaction of Si(cr) Surfaces and N-Species; Part E: Si ₃ N ₄ Powder Formation from Si(Powder)/N ₂ (g); Part F: Fabrication of Reaction Bonded Silicon Nitride; Part G: Si ₃ N ₄ from Si/N ₂ under Vigorous Conditions; Part H: Si ₃ N ₄ Formation by Reaction of Si with N-Compounds; Part I: Si ₃ N ₄ by Nitridation of Si-O Based Materials Part J: Si ₃ N ₄ Formation from Si-N Based MaterialsPart K: Comparative Overview and Summary of Si ₃ N ₄ CVD; Part L: Si ₃ N ₄ by CVD Nitridation of Si-H Compounds; Part M: Si ₃ N ₄ by CVD Nitridation of Si Halides and Halosilanes; Part N: Si ₃ N ₄ Formation in Si-C-N Systems; Part O: Si ₃ N ₄ Formation in Si-N-X Systems, X = B, P, S, Fe, other
Sommario/riassunto	The elements: Si, N, O, C and H, have strong chemical affinities for one another. Under the correct conditions, Si-N bonding will occur in almost any Si-N-(O/C/H), and many related, reaction systems; although Si-O and Si-C are formidable competitors to Si-N. The most favored Si-N compound is stoichiometric Si ₃ N ₄ . It comes in three common varieties. How they interrelate, how one finds them and (above all) how one makes them - and how sometimes they just happen to form - are the subjects of this book, with due attention being paid to closely related matters. This revised second edition summariz

2. Record Nr.	UNIORUON00059655
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