



# **Si Silicon: Silicon Nitride in Microelectronics and Solar Cells (Gmelin Handbook of Inorganic and Organometallic Chemistry - 8th edition)**

*By Eberhard F. Krimmel, Rudolf Hezel*

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This is the first of three Gmelin Handbook volumes in the silicon series that will cover silicon nitride, a normal solid material with the idealized formula  $Si_3N_4$ . This volume, 34 "Silicon" Supplement Volume B Sc, is devoted to applications of silicon nitride in microelectronics and solar cells. The compendium is the product of a critical selection among more than 17600 publications on silicon nitride issued up to January 1990. Out of a total of 5900 publications dealing with the fabrication and use of microelectronic devices (including 2400 Japanese patent applications), about 4000 papers have been selected for this volume. The current volume is grouped into three parts. Chapters 2 to 8 deal with general, non specific microelectronic applications of silicon nitride, Chapters 9 to 31 cover applications of silicon nitride in specific devices and device components, and Chapter 32 is devoted exclusively to applications in solar cells, including information on our general understanding of the role of silicon nitride in photovoltaic devices. Experimental results on the preparation of silicon nitride layers for application in unspecified devices are in Chapter 2. Whenever the preparation is in connection with specific devices, the information is presented in the respective chapters. The general preparation of silicon nitride layers is not covered in this volume, but will appear in "Silicon" Supplement Volume B 5a. See also the Introductory Remarks, Chapter 1, p. 1.

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