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This chapter outlines the historical perspective and the present status of refractory carbides and nitrides. Refractory carbides and nitrides are materials with a high melting point, arbitrarily selected as greater than 1800°C and must have a high degree of chemical stability.

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The main objective of this book is to: (1) provide a complete review of the structures and properties of refractory carbides and nitrides; (2) provide a thorough assessment of the technology, processing, and equipment and systems used in production and R&D, with emphasis on advanced designs; and (3) identify and describe the applications, particularly new and emerging areas.

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