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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [75]-84) and index.
Nota di contenuto	Conventional methods of films deposition and powders synthesis -- Effects of deposition techniques and regimes on morphology of diamond films -- Morphological features of synthetic diamond nano-powders -- Morphology and feature of electron spectrums of crystalline diamond films and powders with different grain sizes and shapes -- Fundamental and 'intra-band' optical absorption of diamond films and powders -- Effect of micro- and nano-sized morphology on DC and AC electrical properties of diamond films and powders -- Semi-empirical simulations approaches and results.