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Chemical Vapor Deposition (CVD) Technology of Black Molybdenum Spectrally Selective Surfaces

By K.A. Gesheva, E.E. Chain

Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Chemical Vapor Deposition (CVD) Technology of Black Molybdenum Spectrally Selective Surfaces, K.A. Gesheva, E.E. Chain, Since 1980, when first applied in the new lamp industry, chemical vapour deposition has been employed in a diverse group of technologies (Jacobson, 1982). At present, CVD plays vital role in microelectronics, wear and radiation resistant coatings, fibre-optics, and the purification and fabrication of exotic materials, from ultra-low expansion glasses to high purity refractory metals. CVD has four major advantages over most other thin film deposition techniques. First, the process allows tight control over gas stream flow rate and composition which leads to predictable and repeatable film composition and graded structures, if desired. Second, the thermal activation of the reaction establishes thermal equilibrium at the site of film deposition, producing tight, highly co-ordinated structures. Third, the throwing power of CVD is excellent, allowing for the coating of less accessible surfaces such as the inside of tubes. Last, the are is especially well suited to the deposition of refractory materials which is difficult by other techniques.



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