

## *Chemical Solution Deposition Of Semiconductor Films*

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Chemical vapor deposition. The process is often used in the semiconductor industry to produce thin films. In typical CVD, the wafer (substrate) is exposed to one or more volatile precursors, which react and/or decompose on the substrate surface to produce the desired deposit. Frequently, volatile by-products are also produced,...

**Chemical vapor deposition - Wikipedia**

Chemical solution deposition (CSD); known also as chemical bath deposition (CBD) and simply chemical deposition (CD, the form we will use in this book) was first described in 1869, and it has been used since to deposit films of many different semiconductors.

**Chemical Solution Deposition Of Semiconductor Films**

Discussing specific depositions of a wide range of semiconductors and properties of the resulting films, Chemical Solution Deposition of Semiconductor Films examines the processes involved and explains the effect of various process parameters on final film and film deposition outcomes through the use of detailed examples.

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The dissociation of  $\text{SeSO}_3$  2 -to  $\text{Se}^{2-}$  in chemical solution deposition of metal selenide semiconductor thin films is discussed in [20]. It is worth noting that from a SSS solution of pH 4.5 good ...

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Chemical Deposition is the precipitation of a metal salt dissolved in a chemical solution. The metal salt is then combined with another metal while in the solution. One common use of chemical deposition in metal finishing is in the semiconductor industry.

**Chemical Deposition | KCH Services Inc.**

Chemical solution deposition (CSD) The application of a solution of metalorganic compound(s) in a suitable solvent on to a substrate, in such a way that a film is formed, followed by pyrolysis and crystallization into oxide as a result of heat treatment. University of Oslo Scootmo meeting 8-9 may -05. CSD process.

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Hodes, "Chemical Solution Deposition of Semiconductor Films", Marcel Dekker (2003). 6. Vacuum Technology, Theory and Laboratory Exercises, Bilotft, Benapfl and Swain, Las Positas College, 2002. 7. John L. Vossen "Materials Science of Thin Films" Second Edition, Elsevier

**REFERENCE 1. Vacuum Technology, Thin Films, and Sputtering ...**

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Physical deposition. Physical deposition uses mechanical, electromechanical or thermodynamic means to produce a thin film of solid. An everyday example is the formation of frost. Since most engineering materials are held together by relatively high energies, and chemical reactions are not used to store these energies,...

### **Thin film - Wikipedia**

Quantum size effects in the study of chemical solution deposition mechanisms of semiconductor films Sasha Goror , Gary Hodes J. Phys. Chem. , 1994 , 98 (20), pp 5338-5346

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Fundamentals --General Review --Mechanisms of Chemical Deposition --II-VI Semiconductors --PbS and PbSe --Other Sulphides and Selenides --Oxides and Other Semiconductors --Ternary Semiconductors --Photovoltaic and Photoelectrochemical Properties --Nanocrystallinity and Size Quantization in Chemical Deposited Semiconductor Films. Responsibility:

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### **CHAPTER III SYNTHESIS AND CHARACTERIZATION OF LEAD SULFIDE ...**

[15] G. Hodes, Chemical Solution Deposition of Semiconductor Films (Marcel Dekker Inc., New-York-Basel, 2002) Recommend this journal. Email your librarian or administrator to recommend adding this journal to your organisation's collection. The European Physical Journal - Applied Physics.

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