



Dr. R. Sellamuthu, Ph.D (USA)

Professor

Official Address

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Education

Ph.D. (University of Pittsburgh, USA)

Experience

1. CHIEF PROCESS ENGINEER: Amcast Precision Products, Rancho Cucamonga, CA, USA.
2. RESEARCH SCIENTIST: Lehigh University, Bethlehem, USA
3. PROCESS ENGINEER: Arwood Corporation, Tilton, NH, USA
4. SENIOR METHODS ENGINEER: General Electric Company, Albuquerque, NM, USA

Subjects Taught

(UG): Materials Science & Engineering, Foundry Engineering,
Welding Technology

(PG): Materials Technology, Casting Technology,
Composite Materials & Processes

Areas of Interest

Materials Engineering, Foundry, Welding, Composite Materials & Processes, Rapid Prototyping Technology, Heat and Mass Transfer in Materials Processing, Process Modeling & Computer Simulation

Publications

1. R. Sellamuthu and J.I Goldstein: "Measurement and analysis of distribution coefficients in Fe-Ni alloys containing S and /or P: Part I , K_{Ni} and K_P " Metallurgical Transactions, Vol. 15A, 1984, P. 1677
2. R. Sellamuthu and J. I. Goldstein: "Measurement and analysis of

- distribution coefficients in Fe-Ni alloys containing S and /or P: Part II, K_{Ir} , K_{Ge} and K_{Cu} ." Metallurgical Transactions, Vol. 16A, 1985, P.1871
3. R. Sellamuthu and A. F. Giamei: "Measurement of segregation and distribution coefficients in Mar-M200 and Hafnium modified Mar-M200 alloys" Metallurgical Transactions, Vol. 17A, 1986, P.419.
 4. R. Sellamuthu, H. D. Brody and A. F. Giamei: "Effect of fluid flow and hafnium content on macro-segregation in the directional solidification of nickel base superalloy" Metallurgical Transaction, Vol.17B, 1986, P 347.
 5. R. Sellamuthu, J. Barkanic, E. Karwacki and R. Jaccodine: "Application of SEM and XPS in plasma etching of single crystal silicon" Microbeam analysis, San Francisco Press, 1986, P.653
 6. R. Sellamuthu, J. Barkanic and R. Jaccodine, "Anisotropic trench etching of Si with NF_3 -Halocarbon mixtures" Tegal 12th Plasma Seminar, 1986, P. 33
 7. R. Sellamuthu and J. I. Goldstein: "Segregation analysis of melt-grown crystals of Fe-Ni alloys with the use of electron microprobe" Microbeam Analysis, San Francisco Press, 1984, P.303
 8. H.G. Stenger, R. Sellamuthu, J.A. Barkanic, and R.J. Jaccodine, "Uniformity of Etch Rate in Plasma Etching Reactors" World Congress III of Chemical Engineering, Vol.I, 1986, P315
 9. R. Sellamuthu, J. Barkanic and R. Jaccodine:, "Study of Anisotropic Trench Etching of Si with NF" J. Vacuum Science & Technology B: Microelectronics and Nanometer Structures, Vol. 5(1), 1987, P 342
 10. R. Sellamuthu and J. I. Goldstein, "Analysis of segregation trends observed in iron meteorites using measured distribution coefficients" Proceedings of the 15th Lunar Planetary Science Conference, Part 2, J. of Geophysical Research, Vol. 90, Supplement, 1985, P. C677.
 11. J. A. Barkanic, R. Sellamuthu, R. Jaccodine, and H. Vedage, "A small area XPS study of anisotropically plasma etched silicon using NF_3 -Halocarbon mixtures" Plasma Processing Seminar, Electrochemical Society, 1986.
 12. R.Sellamuthu, "Development of technology for investment casting of aluminum matrix composites for aerospace applications." 40th annual Meeting, Investment Casting Institute, 1992, P.30:1