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CURRICULUM-VITAE

Name: SESHADRI SEETHARAMAN

Date of Birth: 5th December 1943

Place of Birth: Pudukottai, Tamil Nadu, India.

Citizenship : Swedish (previously Indian)

Swedish National Registration No.: 431205-6551

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EDUCATIONAL QUALIFICATIONS:

Elementary School: Kulapathi Baliah School, Pudukkottai, Tamil Nadu Province, India, 1948-1953

Secondary School: Board High School, Kulitalai, Tamil Nadu Province, India, 1954-1958

Pre-University: Vivekanada College, Madras, Tamil Nadu Province, India, 1958-1959.

Bachelor of Science from the University of Madras in the year 1962

Master of Science from the University of Madras in the year 1965

Doctor of Philosophy in Metallurgical Engineering from Indian Institute of Science in the year 1971

Doccent in Metallurgy from the Royal Institute of Technology, Stockholm, Sweden in the year 1981

Professor in Metallurgy, Royal Institute of Technology, 1990; retired in 2010

**POSITIONS HELD:**:

1964 – 66: Employed as a research assistant in the Electrochemical Research Institute, Karaikudi,
India, dealing with problems in electro-deposition.

1966 – 71: Research student in the Department of Metallurgy, Indian Institute of Sciencce, Bangalore, India.
Title of the Ph.D. thesis: ”Thermodynamic properties of some binary Metal-oxide solid Solutions”.

1971 – 73: Employed in the Department of Metallurgy, Indian Institute of Science as a post-doctoral Research Associate.

1973 – 81: Employed as a Research Associate in the Department of Metallurgy, Royal Institute of Technology, Stockholm, Sweden

1981 – 89: Employed as a ”Universitetslektor” (corresponds to Associate Professor) a permanent faculty position in the Department of Theoretical Metallurgy at the Royal Institute of Technology, Stockholm, Sweden

1990 -2010: Professor, Theoretical Metallurgy, KTH

1996: Head of the Department of Metallurgy, Royal Institute of Technology.

2004: Pro Dean in the Faculty of Mechanical and Materials Engineering, Royal Institute of Technology.

2010(April) – 2011(April) Visiting Professor, Kyoto university

November 2011 – Nov. 2012: Mercator professor, TU-Bergakademie, Freiberg, Germany

June 2013 – July 2014: Visiting Professor, Indian Institute of Science, Bangalore, India

January 2014 – February 2014: Diastinguished Visiting Professor, Indian Institute of Technology Madras, Chennai, India.

September 2014 – Nov. 2014: Distinguished Visiting Professor, Indian Institute of Technology Bombay, Mumbai, India.

Jan. 2015 – April 2015; Feb. 2018 – Apr. 2018: Distinguished Visiting Professor, Indian Institute of Technology Kanpur, Kanpur, India.

May 2015: Visiting professor, Peking university, Beijing, China.

Sept. 2015 –Nov. 2015: Distinguished visiting professor, Indian Institute of Technology Bombay, India.
Sept. 2016 – Nov. 2016 : Distinguished visiting professor, Indian Institute of Technology Bombay, India

Sept. 2017 – Dec. 2017: Distinguished visiting professor, Indian Institute of Technology Bombay, India

**Research Publications:**

About 360 publications in peer-reviewed journals as well as nearly 156 presentations in International Conferences and 10 patents.

**Research Achievements**:

33 students got their Ph.D.s and 12 students got their Tech. Lic. Degrees since I took over the Chair of Theoretical Metallurgy.

**Awards:**

Awarded the Best Teacher award from the Materials Technology education line for the years 1987, 1991, 1992, 1996/1997, 1998, 2001/2002.

Awarded the KTH award for outstanding contributions in basic education for the year 1994.

"Best Teacher of the Royal Institute of Technology", awarded for the year 2003/2004.

Visiting Professor at the University of PennState, USA, 1993.

Honorary Professor at the University of Science and Technology Beijing, China.

Visiting Professor at the Northeastern University of Technology, Shenyang China as well as the University of Technology, Ma'an Shaan, China

Visiting Professor at Kyushu Institute of Technology, during January –March, 2003.

Visiting Professor at Kyoto University, Japan, 2006/2007 (5 months)

Visiting Professor at Kyoto University, Japan, 2010 (one year)

Honorary professor at the Ukrainian National Metallurgical Academy, 2010.

Received Honorary doctorate at Aalto University (formerly Helsinki University of Technology) in the year 2010.

JK Brimacomb award for the year 2010.

Honorary Member of the Iron and Steel Institute of Japan, 2012.

Meracator professor sponsored by the German Research Council, in the Institute of Iron and Steel Technology, Technical University (Bergakademie) Freiberg, Germany during Nov. 2011 – Oct. 2012.

Distinguished Alumni Award of the Indian Institute of Science, Bangalore India in 2013.

**BOOKS:**

1. "Thermodynamic Properties of Oxide Systems"
   S. Seetharaman and K. P. Abraham
   "Solid Electrolytes and Their Applications"
   Ed. E. C. subbarao,Plenum Press, New York, 1980, chap. 4, pp. 127-163.

2. Editors: S. Seetharaman, and Du Sichen, Production Coordinator Aune, R. E.: *Proceedings of the Sixth International Conference on Molten Slags, Fluxes and Salts*, Stockholm – Helsinki, 2000. (ISBN: 91-7170-606-2)
3. S. Seetharaman, Editor, *Fundamentals of Metallurgy,* Woodhead Publishing Ltd., Cambridge, UK, (2005) pp. 38-81. (ISBN: 1-85573-927-5)

4. S. Seetharaman, Editor-in-chief for the book, "Treatise on Process Metallurgy" published by Elsivier, Cambridge, UK, 2013..

**PATENTS:**

1. Condensation process for purification of combustible gaes, Swedish patent, 1995
2. Dephosphorisation of Steel melts, Patent taken by TATA Steel, 2006
3. A Salt extraction process for the recovery of metal values from slags and low grade ores, Patent approved 2009.
4. Separation and recovery of metal values from secondary sources by oxidation and magnetic separation.- Swedish patent, 2010.
5. Increase Mo retention by modified Mo additions in EAF process-patent currently processed – Patent together with Uddeholms AB, 2010.
6. Recovery of Pb from CRT glass, - Patent together with Jernkontoret 2010
7. Recovery of Metal values by Salt extraction process with improved anode design-Patent together with Jernkontoret 2010
8. .New method for extraction of vanadium from primary and secondary sources-patent together with Jernkontoret, 2012..
9. Application of the Salt Extraction Process for the Recovery of Rare-Earth metals from primary and Secondary Sources- patent together with Jernkontoret, 2012..

10. A new process route for the recycling of Aluminium dross from secondary melting of aluminium, patent applied in 2012

**Special Research Interests:**

Novel and innovative process solutions towards energy and environmental optimization of high temperature processes for steelmaking and waste management. The processes are being considered for implementation in Sweden, China and India. New approach to bulk production of nano alloys and composites.

**Other Responsibilities:**

1. Elected to the Basic Education Advisory Committee, Faculty of Mechanical and Materials Engineering, Royal Institute of Technology, 1993-1997.

2. Elected to the Faculty Council, Faculty of Mechanical and Materials Engineering, Royal Institute of Technology, 1997-1999.

3. Head of the Metallurgy Department during the years 1996-1999.

4. Elected as Pro Dean, Faculty of Mechanical and Materials Engineering, as well as the Research Education Council, Royal Institute of Technology, Recruitment Board, Royal Institute of Technology, 2004-2007

5. Chairman for the Swedish Society for Materials Technology for the period 2003-2009

**Conferences :**

1. Has served in the Organisation Committee for Metals Separations Technology, Engineering Foundation, USA, held in Hawaii, 1999.

2. Chairman for the VI Intermnational Conference on “Molten Slags, Fluxes and Salts”, Stockholm/Helsinki, June 2000. The conference had the highest number of participants (400) among all the conferences in the series held so far. The participation was world-wide.

3. Organized the Mills Symposium on “Metals, Slags, Glasses: High Temperature Properties & Phenomena”. About 50 papers from the leading scientists of the world were presented.

4. Organized the conference “Samurai and Viking: Art and Science of Steelmaking and Sword making”, Stockholm, Sweden, September 9-11, 2005.

5. Served in the organization committee for the VII International Conference on "Molten Slags, Fluxes and Salts", Capetown, South Africa, January, 2004.

6. Chairman for the International Conference on Metals Separation Technology III, Holappa Honorary Symposium, Copper Mountain, Colorado, USA, June, 2004. This conference was a landmark for getting Metallurgists from all over the world together for uplifting the area of Metallurgical Processes.

7. Served in the organization committee for a number of European and International conferences on High Temperature Properties and Process Phenomena.

8. Served in the organization committee for the VIII International Conference on "Molten Slags, Fluxes and Salts", Santiago, Chile, January 2009.

9. Served in the organization committee for the IX International Conference on "Molten Slags, Fluxes and Salts", Beijing, China, May 2012.

10. Co-chairman for the International Conference os the Science and Technology of Steelmaking, ICS 2012, Dresden, Germany, Oct. 2012; invited to hold a Plenary lecture.

**CONTRIBUTIONS AT THE NATIONAL AND INTERNATIONAL LEVEL:**

I had served as a member of the International advisory board of the Royal Institute of Technology, Stockholm.

I had been part of a delegation to India in order to establish bilateral collaborations with India at the Governmental as well as institutional levels in 2002.

I have been opponent for theses from Helsinki University of Technology and served in the committee for Ph. D. theses from Luleå Technical University.

I have served as expert for the appointment of professors, lecturers, docent and research associate in different universities in Canada, Australia, India and Sweden..

Reviewer for projects for the research councils in Norway, UK, Canada, Australia, Belgium and Israel.

Thesis examiner for theses from Canada, Australia, India

I have initiated staff and student exchanges with Japan. Famous Japanese professors like Professor N. Sano, Professor M. Iwase, Professor K. Nagata, Professor K. Mukai and Professor M. Hayashi have been visiting professors at my group.

Key Reader for Metall. Mater. Trans;

Reviewer for J. Amer. Ceram. Soc., J. Chem. Thermodyn., ThermochimicaActa, J. Nucl. Materials, Materials Research Bulletin, J. Nano Science and Technology, Mineral Engineering, J. Appl. Physics, J. Mater. Research, J. Alloys and Compounds etc.

Serving in the Editorial advisory committee for: ISIJ International, Steel Research International, High temperature Materials and Processes, Transactions of the IMM (UK). Journal of Mining and Metallurgy.

Has been invited to a number of famous International conferences to present Key-note and invited lectures. Some examples are: Keith Brimacomb Memorial Conference in Vancouer, Manfried Wulff Memorial Symposiun in USA, Professor Geoff Belton Memorial Symposium in Australia, VII International Conference on Molten Slags, Fluxes and Salts, South Africa.

Has held invited courses in Argentina (2007) and Brazil (2008), China-Beijing (2012).

Invited to hold a course on Slags, University of Science and Technology Beijing, China, Oct. 2012.

Held GIAN course “Process Metallurgy for 2016 and beyond” at Indian Institute of Science, Bengaluru, India, during June-July 2016 and another GIAN course, “Slag design in Process Metallurgy” at the College of Engineering, Pune during August 2016.

**PUBLICATIONS:**

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| **1968** | |
| 1 | "Activity measurements in NiO-MnO solid solutions",<br>S. Seetharaman and K. P. Abraham<br>*Trans. Inst. Min. Metall*., London, Sect. C, 1968, vol.77, pp. 209-211. |
| 2 | "Thermodynamic activities of NiO in NiO-MgO solid solutions",<br>S. Seetharaman and K. P. Abraham<br>*Indian J. Technol*., 1968, vol. 6, pp. 123-124. |
| **1969** | |
| 3 | "Activity measurements in CoO-MnO solid solutions",<br>S. Seetharaman and K. P. Abraham<br>*Scripta Met*., 1969, vol. 3, pp. 911-915. |
| 4 | "Heat of Formation of FeO-MnO solid solutions",<br>K. K. Prasad, S. Seetharaman and K. P. Abraham,<br>*Trans. Indian Inst. Metals*, 1969, vol. 22, pp. 7-9. |
| **1971** | |
| 5 | "Thermodynamic properties of some binary metal-oxide solid solutions",<br>S. Seetharaman,<br>*Indian Institute of Science*, Bangalore, India, 1971. |
| 6 | "Activity measurements in CoO-MgO solid solutions by solid state galvanic cell technique",<br>S. Seetharaman and K. P. Abraham,<br>*J. Electrochem.* India, 1971, vol. 20, pp. 54-57. |
| **1972** | |
| 7 | "Activity measurements in CoO-FeO solid solutions",<br>S. Seetharaman and K. P. Abraham,<br>*Trans. Indian Inst. Metals,* 1972, vol. 25, pp. 16-19. |
| **1973** | |
| 8 | "Role of defect structure in the energetics of mixing of solid solutions involving FeO"<br>S. Seetharaman, K. K. Prasad and K. P. Abraham<br>*Indian J. Technol*., 1973, vol. 11, pp. 585-588. |
| 9 | "Defect structure of some metallic fluorides and their applications as solid electrolytes"<br>S. Seetharaman and K. P. Abraham<br>*J. Sci. Ind. Res*. 1973, vol. 32, pp. 641-.645 |
| 10 | "Up Gradation of Low-grade Chromite Ores of Mysore State",<br>S. Seetharaman and K. P. Abraham<br>*J. Inst. Engineers* (India), Part MM, 1973, vol. 54, pp. 23-27. |
| **1976** | |
| 11 | "Solubility of chromium in chromium (II) chloride"<br>S. Seetharaman and L. – I. Staffansson<br>*Acta Chem. Scand*., 1976, 1976, pp. 303-305 |

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| **1977** | |
| 12 | "Activity of tin in silver-tin alloys"<br>S. Seetharaman and L.-I. Staffansson<br>*Chem. Scripta*, 1977, vol. 10, pp. 61-66 |
| **1978** | |
| 13 | "On the standard Gibbs energy of formation of $SnO_2$"<br>S. Seetharaman and L. –I. Staffansson<br>*Scand. J. Metall*., 1978, vol. 7, pp. 143-144. |
| 14 | "On the formation of carbide coatings by chromising carbon steels"<br>L. Zancheva, M. Hillert, N. Lange, S. Seetharaman and L. –I. Staffansson<br>*Metall. Trans. A*, 1978, vol. 9A, pp. 909-915. |
| 15 | "Thermodynamics of manganese-oxygen interactions in dilute copper alloys"<br>S. Seetharaman, K. P. Abraham and L. –I. Staffansson<br>*Scand. J. Metall*.1978, vol. 7, pp. 176-180. |
| **1979** | |
| 16 | "Discussion of 'Electrochemical determination of the free energy of formation of $SnO_2$' "<br>S. Seetharaman and L. I. Staffansson<br>*Metall. Trans. B*, 1979, vol. 10B, pp. 299-300. |
| 17 | "Thermodynamic studies of Zn-O interactions in dilute liquid copper alloys"<br>S. Seetharaman and L. –I. Staffansson<br>*Metall. Trans. B*, 1979, vol. 10B, p. 539-543. |
| 18 | "Enthalpies of mixing in MgO-MnO solid solutions"<br>H. Gripenberg, S. Seetharaman and L. –I. Staffansson<br>*Chem. Scrip*., 1978-79, vol. 13, pp. 162-164. |
| **1980** | |
| 19 | "Thermodynamic Properties of Oxide Systems"<br>S. Seetharaman and K. P. Abraham<br>"*Solid Electrolytes and Their Applications*" Ed. E. C. Subaru, Plenum Press, New York, 1980, chap. 4, pp. 127-163. |
| **1984** | |
| 20 | "Phase relationships in the system Fe-Na-O"<br>W. Dai, S. Seetharaman and L. –I. Staffansson<br>*Scand. J. Metall.*, 1984, vol. 13, pp. 32-38. |
| 21 | "A thermodynamic study of the system Fe-Na-O"<br>W. Dai, S. Seetharaman and L. –I. Staffansson<br>*Scand. J. Metall*., 1984, vol. 13, pp. 319-327. |
| **1985** | |
| 22 | "Modeling of new ironmaking processes: The Inred Process"<br>N. S. Srinivasan, J. –E. Täpp, S. Seetharaman and L. –I. Staffansson |

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| | *Scand. J. Metall*., 1985, vol. 14, pp. 153-159. |
| **1986** | |
| 23 | "Effect of arsenic on the activity of oxygen in dilute liquid copper solutions"<br>H. Walqui, S. Seetharaman and L. –I. Staffansson<br>*Metall. Trans. B*, vol.1986, 16 B, pp. 339-344. |
| 24 | "On the Gibbs energy of formation of wüstite"<br>Sjödén, S. Seetharaman and L. –I. Staffansson<br>*Metall.Trans. B*, 1986, vol. 16B, pp. 179-184. |
| **1988** | |
| 25 | "Oxygen transfer in molten copper at low oxygen potentials and its implication in galvanic cell measurements"<br>S. Seetharaman, N. S. Srinivasan and L. _I. Staffansson<br>*Scand. J. Metall*., 1988, vol. 17, pp. 214-217. |
| 26 | "Effect of selenium on the oxygen in liquid copper alloys"<br>S. Seetharaman and L. –I. Staffansson<br>*Scand. J. Metall.*, 1988, vol.17, pp. 127-130 |
| 27 | "Discussion of 'Physical chemistry of gas-liquid solder reactions' ".<br>Seetharaman and L. –I. Staffansson<br>*Metall. Trans. B*, 1988, vol.19B, pp. 513-514. |
| 28 | "Standard Gibbs energies of formation of the carbides of manganese by EMF measurements"<br>Du Sichen, S. Seetharaman and L. –I. Staffansson<br>*Metall. Trans. B*. 1988, 19B, pp. 951-957. |
| **1989** | |
| 29 | "Discussion of "Thermodynamic activity of $Na_2O$ in $Na_2O$-CaO-$SiO_2$, $Na_2O$-MgO-$SiO_2$ and $Na_2O$-CaO-$SiO_2$-$Al_2O_3$ melts at 1400$^oC$".<br>S. Seetharaman<br>*Metall. Trans. B*, 1989, vol. 20B, pp. 757-758. |
| 30 | "Some phase diagram aspects of the manganese-carbon system"<br>Du Sichen, S. Seetharaman and L. –I. Staffansson<br>*Metall. Trans. B*, 1989, vol. 20B, pp. 747-54. |
| 31 | "Standard Gibbs energies of formation of the carbides of chromium by EMF measurements"<br>Du Sichen, S. Seetharaman and L. –I. Staffansson<br>*Metall. Trans. B*, 1989, 20B, pp. 911-917. |
| **1992** | |
| 32 | "Effect of Tellurium on the activity of oxygen in dilute copper alloys"<br>S. Seetharaman<br>*Scand. J. Metall.*, 1992, vol. 21, pp. 90-92. |
| 33 | "Phase diagram aspects of the system $K_2O$-FeO in equilibrium with metallic iron" |

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| | S. Seetharaman, R. Eichler and A. Hultin<br>*Scand. J. Metall*. 1992, vol. 21, pp. 86-89. |
| 34 | "Application of a non-isothermal thermo gravimetric method to the kinetic study of the reduction of metallic oxides. I: A general treatment and its application to the reduction of the oxides molybdenum by hydrogen"<br>Du Sichen and S. Seetharaman,<br>*Metall. Trans. B*, 1992, vol.23B, pp.317-2435 |
| 35 | "Thermodynamics of salt roasting of sulphide ores",<br>A. Dahlstedt, S. Seetharaman, K. T. Jacob,<br>*Scand. J. Metall*., 1992, vol.21, 242-45. |
| **1993** | |
| 36 | "Experimental studies on nitrogen solubility in $Nd_2Fe_{14}B$ alloy in the temperature range 773-1143 K"<br>C. Önneby, T. DebRoy, S. Seetharaman,<br>*J. Appl. Magnetic Mate*r., 1993, vol.127, pp307-14. |
| 37 | "Development of a galvanic cell method for kinetic studies of solution phenomena in solid oxide systems"<br>A. Jakobsson, N. S. Srinivasan and S. Seetharaman,<br>*Scand. J. Metall*., 1993, vol.22, pp.288-94. |
| 38 | "Application of a non-isothermal thermo gravimetric method to the kinetic study of the reduction of metallic oxides. II: A theoretical treatment of static bed reduction and its application to the reduction of tungsten oxide by hydrogen",<br>J. A. Bustnes, Du Sichen, S. Seetharaman,<br>*Metall. Trans. B*, 1993, vol.24B, pp.475-80. |
| **1994** | |
| 39 | "Matched thermochemical diagram for vacuum decarburization of ferroalloys",<br>Dahlstedt, M. S. Ramanachalam, K. T. Jacob, S. Seetharaman,<br>*Scand. J. Metall*., 1993, vol.22, pp.17-23. |
| 40 | "Discussion of "High-temperature thermodynamic properties of the vanadium carbides $V_2C$ and $VC_{0.73}$ determined using a galvanic cell technique"<br>S. Seetharaman and Du Sichen,<br>*Metall. Trans. B*, 1993, vol. 24B, pp.203-04. |
| 41 | "An Evaluation of the stabilities of the ternary compounds at low oxygen potentials in the ternary system Fe-Na-O",<br>S. Seetharaman and Du Sichen,<br>*High Temperature Materials and Processes*, 1993, vol.12, pp.145-53. |
| **1994** | |
| 42 | "A diffusion model for dissolution phenomena in oxide powder mixtures",<br>N. S. Srinivasan, A. Jakobsson and S. Seetharaman,<br>*Powder Technology,* 1994, vol.79, pp.11-16. |

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| 43 | "Thermodynamic stability of metallurgical coke relative to graphite"<br>K. T. Jacob and S. Seetharaman,<br>*Metall. Trans. B*, 1994, vol.25B, pp.149-51. |
| 44 | "Thermodynamic study of NiO-MgO system in the temperature range 1073 -1473 K by a galvanic cell technique",<br>A. Jakobsson, Du Sichen and S. Seetharaman,<br>*Metall. Trans. B*, 1993, vol.24B, pp.1023-30. |
| 45 | "Dissolution of MgO in CaO-"FeO"-$CaF_2$-$SiO_2$ slags under static conditions",<br>P. Zhang and S. Seetharaman,<br>*J. Am. Ceram. Soc*., 1994, vol.77, pp.970-76. |
| 46 | "A model for estimation of viscosities of complex metallic and ionic melts",<br>Du Sichen, J. Bygdén, S. Seetharaman,<br>*Metall. and Mater. Trans. B*, 1994, vol.25B, pp.519-25. |
| 47 | "Interdiffusion studies in the system MgO-"FeO",<br>J. Bygdén, A. Jakobsson, Du Sichen, S. Seetharaman,<br>*Z. Metallkunde*, 1994, vol.88, pp.433-37. |
| 48 | "Estimation of the viscosities of binary metallic melts using Gibbs energies of mixing",<br>S. Seetharaman, Du Sichen,<br>*Metall. and Mater. Trans. B*, 1994, vol.25B, pp.589-95. |
| 49 | "Thermodynamic activities of FeO in CaO-FeO-$SiO_2$ slags",<br>J. Bygdén, Du Sichen and S. Seetharaman,<br>*Steel Research,* Germany, 1994, No.10, pp.421-28. |
| 50 | "A thermodynamic study of the system molybdenum-oxygen",<br>J. Bygdén, Du Sichen, S. Seetharaman,<br>*Metall. and Mater. Trans. B*, 1994, vol. 25B, pp.885-891. |
| 51 | "Radiation effects in high temperature thermal diffusivity measurements using the laser-flash method",<br>N. S. Srinivasan, X. G. Xiao and S. Seetharaman,<br>*J. Appl. Physics*, 1994, vol.75, pp.2325-31. |
| 52 | "Investigation of kinetics of reduction of nickel tungstate by hydrogen",<br>S. Sridhar, Du Sichen and S. Seetharaman,<br>*Metall. and Mater. Trans. B*, 1994, vol.25B, pp.391-96. |
| 53 | "Thermodynamic study of Cu-Mn system",<br>K. Lewin, Du Sichen and S. Seetharaman,<br>*Scand. J. Metall.*, 1993, vol.22, pp.310-16. |
| 54 | "Measurements of high temperature viscosities of liquid boron trioxide",<br>N. S. Srinivasan, J. M. Juneja, S. Seetharaman, |

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| | *Metall. and Mater. Trans. A*, 1994, vol.25A, pp.877-79. |
| 55 | "Experimental Determination of the Sulphide Capacities of CaO-MnO-$SiO_2$ ternary Slags"<br>R. Nilsson and S. Seetharaman,<br>*Scand. J. Metal.*, 1994, vol.23, pp.81-6. |
| 56 | "Dissolution of MgO in stagnant CaO-FeO-$SiO_2$ slags"<br>J. Bygdén, T. DebRoy and S. Seetharaman,<br>*Ironmaking & Steelmaking*, 1994, vol.21 pp.318-23. |
| 57 | "Investigation of the kinetics of reduction of nickel oxide and nickel aluminate by hydrogen",<br>S. Sridhar, Du Sichen and S. Seetharaman,<br>*Z. Metallkunde*, 1994, vol.85, pp.616-20. |
| 58 | "A modified sulphide capacity function",<br>R. Nilsson, S. Seetharaman and K. T. Jacob,<br>*J. Iron Steel Institute, Japan*, 1994, vol.34, pp.876-82. |
| **1995** | |
| 59 | "Sub-solidus phase equilibria in the $NdF_3$-$Nd_2O_3$ system"<br>J. M. Juneja, A. K. Tyagi, G. Chattopadhyay and S. Seetharaman,<br>*Materials Research Bulletin*, 1995, vol.30, pp.1153-60. |
| 60 | "Studies on the non-stoichiometry of neodymium oxyfluoride phases"<br>J. M. Juneja, S. Seetharaman,<br>*Trans. Indian Inst. Met*., 1995, vol.48, pp.167-71. |
| 61 | "A Mathematical Model for Estimation of Sulphide Capacities of Multicomponent Slags",<br>Du Sichen, R. Nilsson and S. Seetharaman,<br>*Steel Research*, 1995, vol.11, pp.458-62. |
| 62 | "Kinetic studies of reduction of CoO and $CoWO_4$ by hydrogen",<br>J. A. Bustnes, Du Sichen, S. Seetharaman,<br>*Metall. and Mater. Trans. B*, 1995, vol. 28B, pp.547-52. |
| 63 | "Application of QMG-420 mass spectrometer for high temperature studies",<br>V. L. Stolyarova, Du Sichen and S. Seetharaman,<br>*Vacuum,* 1995, vol.46, pp.871-74. |
| 64 | "Authors' Reply to 'Disscussion of <Thermodynamic Stability of Metallurgical Coke Relative to Graphite>"<br>K. T. Jacob and S. Seetharaman,<br>*Metall. Mater. Trans. B*, 1995, vol.26B, pp.656-58. |
| 65 | "High temperature Mass Spectrometric Study of the B2O3-Al2O3 system at 1248-1850 K"<br>V. L. Stolyarova, A. L. Shilov, G. G. Ivanov, M. M. Shultz and S. Seetharaman<br>Rapid Communications in Mass Spectrometry, 1995, vol. 9, pp. 1244-1251. |
| **1996** | |

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| 66 | "A Study of the Thermal Decomposition of $BaCO_3$",<br>I. Arvanitidis, Du Sichen, S. Seetharaman,<br>*Metall. and Mater. Trans. B*, 1996, 27B, PP.409-16. |
| 67 | "Interdissolution Kinetics in Oxide Powder Mixture Using High-Temperature X-ray Diffraction Technique",<br>A. Jakobsson, Du Sichen and S. Seetharaman,<br>*Metall. and Mater. Trans. B*, 1996, vol.27B, pp.318-22. |
| 68 | "Sulphide Capacities of $CaO-Al_2O_3$ Slags in the Temperature Range 1773-1848 K" ,<br>E. Drakaliysky, R. Nilsson, Du Sichen, and S. Seetharaman,<br>*High Temp. Materials and Processes*, 1996, vol.15, pp.263-272. |
| 69 | "Application of High-Temperature X-ray Diffraction Method to the Diffusion Study in the $MgO-Al_2O_3$ System"<br>P. Zhang, J. Karwan-Baczewska, Du Sichen and S. Seetharaman,<br>*Metall. Mater. Trans. A*, 1996, vol.27A, pp.2978-84. |
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