

# Book reviews

**Advanced Processing of Metals and Materials, 9 volumes**, edited by F. Kongoli and R.G. Reddy, 6,758 pages, soft cover, ISBN: 978-0-87339-633-2, published by The Minerals, Metals, and Materials Society [TMS]

This massive work is the Sohn International Symposium on Advanced Processing of Metals and Materials: Principles, Technologies and Industrial Practice, Incorporating the 4th International Symposium on Sulfide Smelting, Sponsored by The Minerals, Metals & Materials Society and SME and represents the 2006 TMS Fall Extraction & Processing: Sohn International Symposium, held August 27–31, 2006, in San Diego, California. This nine-volume set represents the advances in research and technology presented at the symposium organized to honour Professor H.Y. Sohn. The wide range of topics include nonferrous high temperature extraction and processing; iron and steel making; aqueous, electrochemical processing and molten salts; nano, composite, refractory and polymer materials; recycling, recovery and waste treatment. Some information about these volumes are:

Volume 1- **Thermo and Physicochemical Principles: Nonferrous High Temperature Processing**, ISBN: 978-0-87339-634-9, 944 pp. This volume focuses on thermo- and physicochemical-principles of nonferrous high temperature processing. Topics include kinetics; thermodynamics; thermodynamics and physical properties; waste treatment; and recycling and recovery.

Volume 2- **Thermo and Physicochemical Principles: Iron and Steel Making**, ISBN: 978-0-87339-635-6, 762 pp. This volume is devoted to the iron and steel making, alternative routes, blast furnace coke and coal; liquid steel processing and reactors; thermodynamics and kinetics; inclusions and steel cleanliness; casting; and modeling and processing.

Volume 3- **Thermo and Physicochemical Principles: Special Materials; Aqueous and Electrochemical Processing**, ISBN: 978-0-87339-636-3, 822 pp.

Volume 4- **New, Improved and Existing Technologies: Nonferrous Materials Extraction and Processing**, ISBN: 978-0-87339-637-0, 738 pp

Volume 5 - **New, Improved and Existing Technologies: Iron and Steel; Recycling and Waste Treatment**, ISBN: 978-0-87339-638-7, 720 pp.

Volume 6 - **New, Improved and Existing Technologies: Aqueous and Electrochemical Processing**, ISBN: 978-0-87339-639-4, 754 pp.

Volume 7 - **Industrial Practice**, ISBN: 978-0-87339-640-0, 670 pp.

Volume 8 - **International Symposium on Sulfide Smelting 2006**, ISBN: 978-0-87339-641-7, 860 pp.

Volume 9 - **Legal, Management and Environmental Issues**, ISBN: 978-0-87339-642-4, 488, pp.

Each volume contains a special article entitled, "Remembrance of Academic Mentors and Early Associates", given by *H.Y. Sohn*, and the following plenary lectures:

- Professor H.Y. Sohn – Biography, by *R.G. Reddy*
- It Is All About Energy by *P.R. Atkins*
- The Precious Art of Metals Recycling by *F. Vanbellén, and M. Chintinne*
- Nonferrous Metal Recycling in Korea: The Present and the Future by *K.-I. Rhee*
- The Role of Processes Modeling in Iron and Steelmaking by *P.C. Chaubal*
- Liquidus Relations of Calcium Ferrite and Ferrous Calcium Silicate Slag in Continuous Copper Converting by *F. Kongoli, I. McBow, A. Yazawa, Y. Takeda, K. Yamaguchi, R. Budd, and S. Llubani*
- Recent Developments in Copper Hydrometallurgy (Abstract Only) by *J.O. Marsden*

Professor H. Y. Sohn received his Ph.D. degree in 1970 from the University of California at Berkeley then joined the Department of Metallurgical Engineering at the University of Utah in 1974. His work has been recognized through various awards, including the James Douglas Gold Medal, the

Champion H. Mathewson Gold Medal and the TMS Extractive Metallurgy Lecturer Award. He has co-authored two monographs, co-edited 13 books, and written some 300 papers.

Editor Dr. Florian Kongoli, a graduate of the Université de Montréal, is Executive President of Flogen Technologies Inc., a technology, research and consulting company. He has 15 years of research and development and academic experience. His work is oriented in developing new low cost technologies through thermo-physicochemical modeling, simulation and laboratory experimental studies applicable in various metallurgical and chemical processes. Editor Dr. Ramana Reddy is professor at the Department of Metallurgical and Materials Engineering, University of Alabama in Tuscaloosa. He authored over 300 scientific papers and authored a textbook on thermodynamics.

This great work is a milestone in the history of metallurgy – to my knowledge there has never been such a voluminous metallurgical conference proceedings with so many authors and so many papers. TMS personnel have certainly done a wonderful job.

Congratulations to the editors and my sincere best wishes to Professor Sohn.

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