



Handbook of Vacuum Arc Science & Technology: Fundamentals and Applications (Materials Science and Process Technology Series)

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This is a comprehensive text describing the basic physics and technological applications of vacuum arcs. Part I describes basic physics of the vacuum arc, beginning with a brief tutorial review of plasma and electrical discharge physics, then describes the arc ignition process, cathode and anode spots which serve as the locus for plasma generation, and resultant interelectrode plasma. Part II describes the applications of the vacuum arc for depositing thin films and coatings, refining metals, switching high power, and as sources of intense electron, ion, plasma, and x-ray beams.

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Editorial Review

About the Author

Raymond L. Boxman is a Professor of Electrical and Electronics Engineering at Tel Aviv University, Israel, and is the Managing Director of Arc Technologies, Ltd. He formerly worked on vacuum switch gear R&D at the General Electric Company in Philadelphia, PA. His current interests include phenomena in the vacuum arc anode and plasma, as well as development of vacuum arc deposition coatings and techniques. He is also a Fellow of IEEE.

David M. Sanders is the Group Leader for Vacuum Processes at the Lawrence Livermore National Laboratory, California. He is interested in arc source development, vacuum coating technology, and information technology.

Philip J. Martin is the Group Leader of the Surface Engineering Project at CSIRO, Division of Applied Physics, Australia. He is engaged in research and development of ion assisted thin film deposition including filtered arc technology.

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