



## Characterizing Tps Microstructure: A Review of Some Techniques

By Matthew Gasch

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. I. When seeking to understand ablator microstructure and morphology there are several useful techniques A. SEM 1) Visual characterization at various length scales. 2) Chemical mapping by backscatter or x-ray highlights areas of interest. 3) Combined with other techniques (density, weight change, chemical analysis) SEM is a powerful tool to aid in explaining thermostructural data. B. ASAP. 1) Chemical characterization at various length scales. 2) Chemical mapping of pore structure by gas adsorption. 3) Provides a map of pore size vs. pore volume. 4) Provided surface area of exposed TPS. II. Both methods help characterize and understand how ablators react with other chemical species and provides insight into how they oxidize. This item ships from La Vergne, TN. Paperback.



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