Aims and Scope

Material damage from the atomic to the macroscopic scale has received continuing interest with reference to the development of physical models and in testing. The challenge involves connecting the results at the different scale level from the very small to the very large. Theories, computational schemes and experimental methods, however, are found to be scale specific. Development of physical models should not only consider consistency in formulation but also the effectiveness in application. The presentations in this volume are focused on achieving the aforementioned objectives by means of multiscaling.

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Multiscale Behavior of Materials and Structures:
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Material and structure damage at the different scales are examined with emphases placed on establishing a common ground for disciplines involving physics, chemistry, mechanics and materials engineering.