

MAR07-2006-020126

Abstract for an Invited Paper
for the MAR07 Meeting of
the American Physical Society

Exploring The Folding Energy Landscape—Triumphs and Tribulations

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The folding process has become one of the best understood transformations of condensed matter, owing to the minimal frustration principle and the collective nature of the key bottlenecks in the folding process. I will discuss the limits of models based on topology alone and also highlight the effects of residual frustration and co-factors in some puzzling examples that challenge the funnel paradigm.