

**APPLICATION OF THE H -FUNCTION IN MARKOVIAN
AND NON-MARKOVIAN CHAIN MODELS**

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Abstract

In this note we present an H -function formulation of the exponential functions which describe the probability densities in the Markovian and non-Markovian chain models. The Markovian chain model is generalized in such a way that it will be able to include anomalous relaxation / diffusion processes, in disordered but scaling materials. Examples of anomalous (fractional) relaxation and (single-file) diffusion processes are discussed and compared with experimental results.

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