

# **Some Remarks on Nucleation Theory**

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**Přednáška v rámci semináře katedry stavební mechaniky  
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## **I. GENERAL**

metastability and fluctuations  
Boltzmannian probability  
homogeneous and heterogeneous nucleation

## **II. THERMODYNAMICS OF NUCLEATION**

work of cluster formation  
nucleation barrier  
critical size

## **III. STOCHASTIC ASPECTS OF NUCLEATION**

transition probabilities  
nucleation equation  
basic characteristics of nucleation process

## **IV. APPLICATION**

phase transformation within cement paste  
CSH nuclei