

An application of the burr function to the description of dielectric relaxation data in frequency domain.

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As it was shown in [1], the experimental absorption curves can be, in the case of some crystals, far better fitted with the Burr relaxation function than with the commonly used Cole-Cole function proposed by the authors of [2]–[3]–[17]. So, it seems to be useful to present some features of this function and the full procedure how to transform it into the frequency domain. The Burr function was derived in [18] $\Phi(t)=1[1+k(A\omega pt)^\alpha]^{1/k}$ where k and α are constants characteristics of the material, A is the loss-peak frequency and p is a normalizing constant.

Adres publiczny

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