

Dispersion of air bubbles in a flotation cell under predetermined hydrodynamic conditions

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Abstract. From a practical point of view the most important stage in flotation is a mineralization of gas bubbles, where the bubbles size is an important factor. Numerous studies and models show the relationship between the flotation parameters and gas distribution in a flotation cell. The size of gas bubbles is a random variable with a specific distribution [1] and analysis of this distribution is useful to make mathematical description of the flotation process. The article presents the results of measurements and analysis of the gas phase dispersion by the size distribution of air bubbles in a flotation chamber under fixed hydrodynamic conditions.

References

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