

Separation of closely located IR Fourier absorption bands using the genetic algorithm

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Abstract

The genetic algorithm was used for analyzing experimental closely located analytical conformation-sensitive IR Fourier absorption bands of low-molecular compounds incorporated into a polymeric matrix. Model experiments demonstrated the efficiency of spectrum reconstruction using the genetic algorithm as compared to the least squares method in the case of closely located components and in the presence of low-frequency noise in the spectrum. © 2013 Pleiades Publishing, Ltd.

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