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Vibrational Spectra and Assignments of cis- and Trans-1,4-Polybutadiene

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 [Keywords](#)
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Abstract: The Raman spectra of cis- and trans-1,4- polybutadiene were recorded in the region 100-4000 cm^{-1} and its infrared spectra were also measured in the wave number range 200--4000 cm^{-1} . The spectra were completely analysed. Probable assignments to observed bands were made with the help of intensities and normal co-ordinate analysis. The calculated normal frequencies were in good agreement with the experimental ones.

Key Words: Polymers, Infrared and laser raman spectra, Vibrational analysis.



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