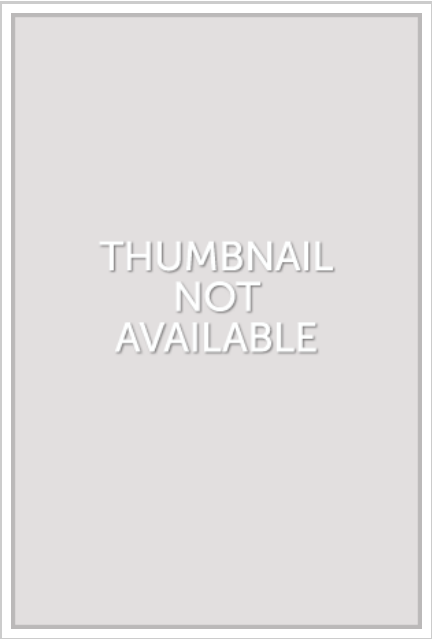

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Acoustical and Spectrophotometric Study of Substituted N-Heterocyclics

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Determination of Specific Molecular Interaction and Stability Constant of Substituted N-Heterocyclics | The ultrasound velocity measurements are helpful to study the intermolecular interactions and thermodynamical properties of pure components and their mixtures.Therefore, in the present book, ultrasonic studies of substituted propenamide studied in ethanolic solutions of various concentrations at different temperatures 303, 308 and 313 K with a view to understand molecular interactions in these solutions. Moreover , the complex formation in the solution of some N-heterocyclic compounds studied with some metal ions by determination of stability constant using spectrophotometry. The spectrophotometric study of chelating properties of some newly substituted heterocycles viz 2-(4,5-dihydro-1,2-oxazol-5-yl)phenol-N-methylaniline, 4-(1H-benzimidazole-2-yl)phenol and Ethyl 4-(4-hydroxyphenyl)-6-methyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate with Ni (II) and Cu(II) metal ions by Job's variation method reported here.The study of thermo-acoustical parameters and study of stability constant of complexes by spectrophotometric study gives an important information regarding the presence of molecular interaction.It has an application in drug absorption and transmission. | Format: Paperback | Language/Sprache: english | 72 pp.

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