

## Annotation

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The forms of moisture binding to materials are analyzed from the standpoint of binding energy; proceeding from fundamental concepts of the thermodynamics of irreversible processes, expressions for the chemical potential of mass transfer for various forms of binding are obtained in explicit form; extensive systematized experimental data for sorption and desorption isotherms (over 1800 isotherms) are presented, on whose basis new data on thermodynamic parameters and mass transfer coefficients for about 900 materials are obtained and their analysis is given.

The book is intended for a broad segment of scientific workers and engineering staff of chemical processing, heat engineering, food industry, and allied specialities.