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Dispersion Forces II: Many-Body Effects, Excited Atoms, Finite Temperature and Quantum Friction (Springer Tracts in Modern Physics)

Stefan Buhmann

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In this book, a modern unified theory of dispersion forces on atoms and bodies is presented which covers a broad range of different aspects and scenarios. Macroscopic quantum electrodynamics is applied within the context of dispersion forces. In contrast to the normal-mode quantum electrodynamics traditionally used to study dispersion forces, the new approach allows to consider realistic material properties including absorption and is flexible enough to be applied to a broad range of geometries. Thus general properties of dispersion forces like their non-additivity and the relation between microscopic and macroscopic dispersion forces are discussed. It is demonstrated how the general results can be used to obtain dispersion forces on atoms in the presence of bodies of various shapes and materials. In particular, nontrivial magnetic properties of the bodies, bodies of irregular shapes, the role of material absorption, and dynamical forces for excited atoms are discussed. This volume 2 deals especially with quantum electrodynamics, dispersion forces, Casimir forces, asymptotic power laws, quantum friction and universal scaling laws. The book gives both the specialist and those new to the field a thorough overview over recent results in the context of dispersion forces. It provides a toolbox for studying dispersion forces in various contexts.

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