

Advances In The Casimir Effect International Series Of Monographs On Physics

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Advances In The Casimir Effect

The subject of this book is the Casimir effect, i.e., a manifestation of zero-point oscillations of the quantum vacuum in the form of forces acting between closely spaced bodies. It is a purely quantum effect. There is no force acting between neutral bodies in classical electrodynamics. The Casimir effect has become an interdisciplinary subject.

Advances in the Casimir Effect

Advances in the Casimir Effect. Michael Bordag, Galina Leonidovna Klimchitskaya, Umar Mohideen, and Vladimir Mikhaylovich Mostepanenko. International Series of Monographs on Physics. Description. The subject of this book is the Casimir effect, a manifestation of zero-point oscillations of the quantum vacuum resulting in forces acting between closely spaced bodies.

Advances in the Casimir Effect

Although the Casimir effect has been an intriguing subject on its own right for more than half a century, it is experiencing a renaissance at the moment, because only fairly recently first precise measurements of the Casimir force have been made and because the Casimir effect is becoming important in nanotechnology."

Advances in the Casimir Effect (The International Series ...

Interest in the Casimir force—the attraction between two uncharged plates resulting from the zero point energy in the vacuum between them—is greater now than ever before, in part due to the force's role in the physics of micro- and nano-electromechanical devices. However, despite major advances in experimental techniques and calculational methods, experts still dispute such issues as the accuracy with which the force can be measured and calculated.

Advances in the Casimir Effect

2. Simple models of the Casimir effect 3. Field quantization and vacuum energy in the presence of boundaries 4. Regularization and renormalization of the vacuum energy 5. The Casimir effect at nonzero temperature 6. Approximate and numerical approaches to the Casimir effect 7. The Casimir effect for two ideal metal planes 8.

Advances in the Casimir Effect

Advances in the Casimir Effect cannot be considered up-to-date, nor can it be taken as a scholarly review of the field, since it merely rehashes the authors' own views. And although the book's intended audience includes advanced graduate and undergraduate students, I expect only experts will be able to draw anything from it. Steve K. Lamoreaux

Advances in the Casimir Effect

About the author. Description. The subject of this book is the Casimir effect, a manifestation of zero-point oscillations of the quantum vacuum resulting in forces acting between closely spaced bodies. For the benefit of the reader, the book assembles field-theoretical foundations of this phenomenon, applications of the general theory to real materials, and a comprehensive description of all recently performed measurements of the Casimir force with a comparison between experiment and theory.

Advances in the Casimir Effect

The Casimir effect can be understood by the idea that the presence of conducting metals and dielectrics alters the vacuum expectation value of the energy of the second-quantized electromagnetic field.

Casimir effect

Casimir effects serve as primary examples of directly observable manifestations of the nontrivial properties of quantum fields, and as such are attracting increasing interest from quantum field theorists, particle physicists, and cosmologists. Furthermore, though very weak except at short distances, Casimir forces are universal in the sense that all material objects are subject to them.

Casimir Physics

CASIMIR EFFECT This effect, that two mirrors in a vacuum will be attracted to each other, is the Casimir Effect. It was first predicted in 1948 by Dutch physicist Hendrick Casimir. Steve K....

What is the Casimir effect?

The Casimir effect, originally introduced by Casimir in 1948, can be considered as a macroscopic quantum effect originating from quantum vacuum fluctuations in the presence of some boundary...

Advances in the Casimir Effect

Something repulsive in the Casimir effect. Two uncharged objects (metal plates for instance) will experience an attractive force between them, the magnitude of which increases as they are brought...

Stable Casimir equilibria and quantum trapping

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Advances in the Casimir Effect

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Advances in the Casimir Effect

This title is a comprehensive sourcebook, distilled from hundreds of recently published papers, about the Casimir effect: the small forces originating from the quantum vacuum and acting between closely spaced bodies. It brings together developments in experiment and theory, fundamental and applied aspects of the Casimir force.

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