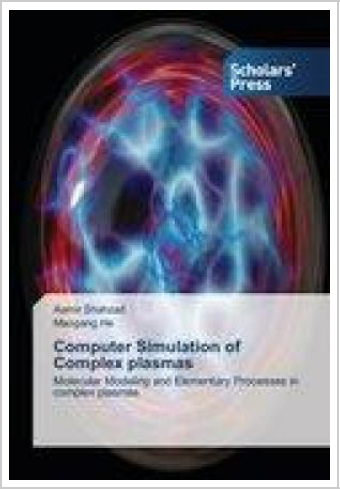

Computer Simulation of Complex plasmas

By Aamir Shahzad

SPS Feb 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x13 mm. This item is printed on demand - Print on Demand Neuware - This book is focused on the thermophysical properties of complex liquids (dusty plasmas) using novel molecular dynamics simulation (MDS) methods, and will disclose the exact nature and origin of the deep understanding exist in different modes of complex liquids. New MDS methods for investigating transport properties in microelectronic (thermoelectronic and photoelectronic) devices are required for improving device design and for understanding device physics. Such methods are also required for studying new transport phenomena in nanoscale devices made of novel nanostructures, such as carbon electronics or semiconductor nanowires, nanometer size sensors to detect proteins or single DNA and nanolevel fluidic flow, nanopodwer production, nanocrystalline solar cells and polymer coatings with embedded nano particles. Plasma thermal conductivity, heat process and their nonlinear effects (non-Newtonian behaviors) are the basic data of transport property of complex liquids, and are applied for studying their flow,and heat and mass transfer characteristics. We have discussed the thermal conductivity of complex (dusty) plasmas that is an important parameter using in the heat designing system. 220 pp. Englisch.

Reviews

The ideal publication i at any time go through. It is actually rally fascinating throgh reading through time. I am pleased to inform you that this is actually the greatest book i have got read through during my individual existence and might be he best book for at any time.

-- ***Alexandre Cruickshank***

Undoubtedly, this is the best work by any author. It is really simplified but shocks within the 50 % in the publication. Its been written in an extremely straightforward way and is particularly just following i finished reading this publication by which basically altered me, modify the way in my opinion.

-- ***Vivianne Dietrich***