



Introduction to Dusty Plasma Physics (Series in Plasma Physics)

By P.K Shukla, A.A Mamun

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Introduction to Dusty Plasma Physics contains a detailed description of the occurrence of dusty plasmas in our Solar System, the Earth's mesosphere, and in laboratory discharges. The book illustrates numerous mechanisms for charging dust particles and provides studies of the grain dynamics under the influence of forces that are common in dusty plasma environments.

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Review

"This book is an excellent and timely introduction to the fastest developing branch of plasma physics. While the emphasis is on collective processes in dusty plasmas, an area where the authors are leading authorities, the basic processes of dust charging and their physical and dynamical consequences are discussed in considerable detail. The material is well organized and the writing style is lucid. I consider this book essential reading to anyone who desires an authoritative introduction to this fascinating area of research." Prof D A Mendis, University of California San Diego "This text presents a timely and pertinent introduction to the new area of dusty plasma physics by one of the major contributors to the field and one of his close collaborators. The book begins by indicating the ubiquity and importance of charged dust in plasma environments. The book then develops the physics of dusty plasmas, with particular emphasis on waves, instabilities and nonlinear structures. I am sure that this work will stimulate an already rapidly growing area of physics. It will be useful to both experimentalists and theoreticians who wish to acquire a broad and solid introduction to the field of dusty plasmas." J T Mendonca, Instituto Superior Tecnico, Portugal "The book . . . was written by authors who directly participated in the development of dusty plasma theory. It addresses current knowledge about dusty plasmas and summarizes more than 20 years of research in this rapidly evolving subject with its own wide range of topics . . . A useful discussion of the electrodynamics of a dusty plasma containing nonspherical dust particles finalizes the large coverage of collective phenomena . . . Overall, the book gives a comprehensive analysis of basic dusty plasma physics, combining in an original way laboratory and space plasma topics. There is no doubt that the book will find a well-deserved place on the shelves of all the plasma physicists and astrophysicists with an interest in space and laboratory dusty plasmas." Victoria Yaroshenko, Max-Planck-Institut fur Extraterrestrische Physik "This text presents a timely and pertinent introduction to the fastest developing branch of plasma physics. While the emphasis is on collective processes in dusty plasmas, an area where the authors are leading authorities, the basic processes of dust charging and their physical and dynamical consequences are discussed in considerable detail. The material is well organized and the writing style is lucid. I consider this book essential reading to anyone who desires an authoritative introduction to this fascinating area of research." Prof D A Mendis, University of California San Diego "This text presents a timely and pertinent introduction to the new area of dusty plasma physics by one of the major contributors to the field and one of his close collaborators. The book begins by indicating the ubiquity and importance of charged dust in plasma environments. The book then develops the physics of dusty plasmas, with particular emphasis on waves, instabilities and nonlinear structures. I am sure that this work will stimulate an already rapidly growing area of physics. It will be useful to both experimentalists and theoreticians who wish to acquire a broad and solid introduction to the field of dusty plasmas." J T Mendonca, Instituto Superior Tecnico, Portugal "The book . . . was written by authors who directly participated in the development of dusty plasma theory. It addresses current knowledge about dusty plasmas and summarizes more than 20 years of research in this rapidly evolving subject with its own wide range of topics . . . A useful discussion of the electrodynamics of a dusty plasma containing nonspherical dust particles finalizes the large coverage of collective phenomena . . . Overall, the book gives a comprehensive analysis of basic dusty plasma physics, combining in an original way laboratory and space plasma topics. There is no doubt that the book will find a well-deserved place on the shelves of all the plasma physicists and astrophysicists with an interest in space and laboratory dusty plasmas." Victoria Yaroshenko, Max-Planck-Institut fur Extraterrestrische Physik

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