



Solitary waves, double layers, and instabilities in quantum plasmas

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Z-K and Gardner approach | Quantum plasmas have attracted baronial interest due to their enormous applications in dense plasma particularly in different astrophysical and cosmological systems e.g., core of big planets like Jupiter and white dwarf stars magnetars , warm dense matter, interstellar or molecular clouds, planetary rings, comets, interior of white dwarf stars, etc as well as in semiconductors, thin films and nano-metallic structures , quantum diodes, compressed plasmas produced by intense laser and charged particle beams for producing fusion energy and high-energy electrons and positrons. This field is opening a window of new opportunities for carrying out cutting edge fundamental research and controlled thermonuclear fusion from compressed plasmas employing magnetoinertial confinement schemes that use high energy density plasmas created by ultra-intense laser and relativistic charged particle beams. In this book, we have studied the nonlinear propagations of quantum ion-acoustic, quantum dust-ion-acoustic, and quantum dust-acoustic waves in dense quantum plasmas theoretically. Readers of this book could gather a sound knowledge about this interesting field of science. | Format: Paperback | Language/Sprache: english | 132 pp.



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