



## Universalities in Condensed Matter

By Jullien, Remi / Peliti, Luca

Book Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the Workshop, Les Houches, France, March 15-25, 1988 | Universality is one of the fascinating features of condensed matter physics: it is the property whereby systems of radically different composition and structure exhibit similar behavior. In the mid-1960s the word entered usage to express the fact that the equations of state of several substances could be mapped onto one another near the critical point: critical universality. Renormalization group theory in the early 1970s provided both an explanation and a sharper definition of universality. Systems with similar behavior - universality classes - correspond to the same fixed point of a renormalization group transformation. A number of brilliant contributions showed how the same concepts could be applied to non-thermodynamic systems, such as the statistics of self-avoiding walks or of connected clusters on a lattice. A few years later it was realized that chaotic dynamical systems may also exhibit some degree of universality, the paradigmatic example being the period doubling cascade in the iterated maps of the unit interval into itself. | I Geometrical Approaches.- Hierarchy of Line Defects in Structures.- Are There Universalities in Systems with Frustrated Local Order?.- Contribution to the Theory...



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