



## Geometry and Thermodynamics

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Common Problems of Quasi-Crystals, Liquid Crystals, and Incommensurate Systems | Proceedings of a NATO ARW held in Preveza, Greece, September 4-8, 1989 | Distinct scientific communities are usually involved in the three fields of quasi-crystals, of liquid crystals, and of systems having modulated crystalline structures. However, in recent years, there has been a growing feeling that a number of common problems were encountered in the three fields. These comprise the need to recur to "exotic" spaces for describing the type of order of the atomic or molecular configurations of these systems (Euclidian "superspaces" of dimensions greater than 3, or 4-dimensional curved spaces); the recognition that one has to deal with geometrically frustrated systems, and also the occurrence of specific excitations (static or dynamic) resulting from the continuous degeneracies of the stable structures considered. In the view of discussing these problems, a NATO-Advance Research Workshop has assembled in Preveza (Greece), in september 1989, 50 experts of the three considered fields (with an equal proportion of theorists and experimentalists). 35 hours of conferences and discussions have led to a more detailed evaluation of the similarities and of the differences in the approaches implemented in the studies...



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