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Tables of crystallographic properties of magnetic space groups. (English) Zbl 1370.82100

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Summary: Tables of crystallographic properties of the reduced magnetic superfamilies of space groups, i.e. the 7 one-dimensional, 80 two-dimensional and 1651 three-dimensional group types, commonly referred to as magnetic space groups, are presented. The content and format are similar to that of non-magnetic space groups and subperiodic groups given in International Tables for Crystallography. Additional content for each representative group of each magnetic space-group type includes a diagram of general positions with corresponding general magnetic moments, Seitz notation used as a second notation for symmetry operations, and general and special positions listed with the components of the corresponding magnetic moments allowed by symmetry.

MSC:

82D25 Statistical mechanical studies of crystals
20H15 Other geometric groups, including crystallographic groups

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magnetic groups; magnetic space groups

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