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Bibliography
Rare earth–transition metal alloy permanent magnet materials: 1960–1985

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Rare earths, primarily light rare earths, either alone or in combination with other rare earths, as in misch metal, alloyed with cobalt or iron, constitute a unique new class of permanent magnet materials with outstanding coercivity and other magnetic properties. These materials represent the first serious alternative to the alnicos and ferrites, discovered earlier. The intensity of interest in this field may be judged by the presence of over 800 publications which have appeared in the 25 years since their discovery and by the fact that the publication rate remains unabated. The present bibliography includes a listing of references by year and indexes based on subject, material and author.

1. Introduction
There are three important classes of permanent magnets: alnicos, discovered in the 1930s, ferrites, invented in late 1940s and rare earth–3d transition metal alloys, found in the 1960s. These three classes constitute the bulk of the permanent magnets produced in the world, though their relative share has varied from time to time over this period. Other types of permanent magnets, e.g. Pt–Fe, Fe–Cr–Co, single domain particles, etc. are essentially speciality materials.

The rare earth–transition metal (primarily cobalt and iron) alloys are the subject of the present bibliography. It covers mainly the magnetic properties, crystal structures and phase relations of these alloys. The publications in this field are listed by year, and within each year the papers are listed in alphabetical order by the first author. All published papers regardless of source (journals, books, conference proceedings, etc.) are included. However, no unpublished material, (e.g. reports) or patent literature are covered.

The intense activity and the continuing growth of this field may be judged by the presence of over 800 publications in this field. The bibliography starts with the paper of Hubbard *et al.* [1] who reported in 1960 the magnetic moments of the $CaCu_5$ type phases in the RCo_5 intermetallics. But it was only after Hoffer and Strnat [25] reported in 1967 the huge magnetocrystalline anistropy for YCo_5 that the research activity in this field started intensively. Undoubtedly, $SmCo_5$ which has the highest magnetocrystalline anisotropy ($H_A \approx 400$ kOe) among all the RCo_5 phases, is the most extensively studied material in the RT_5 family of permanent magnets. An energy product of 20 MGOe and an intrinsic coercive force $\leqslant 50$ kOe could be attained. This was followed by a second family of permanent magnet materials, following the publication by Ojima *et al.* [387, 388] in 1977 that, with alloys of general composition $Sm_2(Co, Cu, Fe, Zr)_{7.4}$ a magnet with a $(BH)_{max}$ greater than 30 MGOe could be produced.

The discovery of a new ternary phase, $Nd_2Fe_{14}B$, reported in 1984 by Sagawa *et al.* [771, 772] and Croat *et al.* [724, 725] ushered in an era for a third family of rare earth–transition metal base permanent magnets. The unique feature of this last category of permanent magnet materials is that in $Nd_2Fe_{14}B$ the element iron, which is cheap and available in abundance (unlike the scarce and costly element cobalt) is present as the main constituent (82.4 at %). At the same time magnets with an energy product > 40 MGOe, the highest ever attained, could be produced. Unlike $SmCo_5$ which has been studied extensively, $Nd_2Fe_{14}B$ is still a pearl not completely out of sea and many more interesting studies and reports are expected in this third family of $R_2T_{14}B$ base permanent magnet materials.

Another unique feature of the activity in the rare earth–transition metal magnet field is that almost from the beginning, academic and industrial research grew simultaneously, without the usual time lag. After its beginnings in the USA, research and development in this area quickly spread to Europe and USSR and later to Japan and China. It is significant however, that the countries with major rare earths resources, namely, Australia, Brazil and India, have not been particularly active in the rare earth–transition metal magnet field.

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This bibliography is condensed from the earlier version (unpublished) which had over 1400 publications. In this, papers dealing with magnetic phases such as RT_3, R_2T_7, etc. which may coexist as a minor phase with the main phase (RT_5, R_2T_{17} or $R_2T_{14}M$) but not of direct interest as permanent magnet materials have been eliminated. Also papers lagging five to ten years in time and dealing with a more or less similar subject matter to that published by earlier authors are not included. Similarly papers dealing with phases (Laves phases) which are of interest for understanding magnetism in rare earth-3d intermetallic compounds but with no potential for permanent magnet utility are not listed completely. However, almost all the important papers on permanent magnet materials in each year are listed, and from the references of these one can get access to other papers on this subject. The papers dealing with only applications are not listed in this bibliography.

A subject index, a materials index and an author index are included for convenience.

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