

永磁多极磁体的另一种新型设计

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摘要 本文提出的永磁多极磁体的另一种新型设计中,组成永磁体的永磁块的宽度是调变的。在理想的二维情况下,调变永磁块的宽度,只用径向磁化的永磁块,也能产生纯2N极磁场。文中给出了二维情况下标量磁势的表达式。

关键词 [永磁多极磁体](#) [标量磁势](#)

分类号

ANOTHER NEW DESIGN OF PERMANENT MULTI POLE MAGNETS

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Abstract Another new project of permanent multipole magnets is described. In this design, the magnet is composed of permanent magnet segments with varied width. Due to the modulation of the width of the segments, by using radially magnetized segments, pure 2N pole magnetic field can be built in ideal 2--dimensional case. The 2--dimensional spatial expressions of the scalar potential of the magnetic field are given.

Key words [Project of Permanent multipole magnets](#) [Scaler potential of magnetic field](#)

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