

THE MUTUAL ENERGY STORAGE EFFECT OF TWO SUPERCONDUCTING RINGS



(8), larger direct current is induced in the two HTS coils in the energy storage stage. In contrast, if the distance d between two HTS coils is larger than 30 mm, ?? p1 and ?? p1 ???



In case of a smooth superconducting ring and electric field low enough, there is no force that could make this happen. The situation is analogous to that of metal ball in a bearing. The ball moves in circles not in straight line ???



Superconducting coils (SC) are the core elements of Superconducting Magnetic Energy Storage (SMES) systems. It is thus fundamental to model and implement SC elements in a way that ???



In order to reveal the mutual effect of the rings, we present the field lines calculated for an axial stack with $M \times N = 3 \times 1$, ?? = 0.5, ?? = 1.0 and ?? = 0.2 at an applied field ???