

Practical realization of the Force-free Magnetic Field models

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To apply force-free magnetic field models we present and discuss properties and features of the following models: Miller and Turner solution, modified Miller and Turner solution, Romashets and Vandas solution, Integral model, Krittinatham and Ruffolo model. These models can be used to interpret in-situ observations of the magnetic flux rope, study Forbush decrease in magnetic clouds or investigate transport effects of solar energetic particles injected inside a coronal mass ejection.

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