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Group Theory and the Rubik's Cube

"Joyner has collated all the Rubik lore and integrated it with a self-

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(Choice) "Joyner does convey some of the excitement and adventure in picking up knowledge of group theory by trying to understand Rubik's Cube.

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The Rubik's Cube group is a group $\{ \}$ that represents the structure of the Rubik's Cube mechanical puzzle. Each element of the set G $\{ \}$ corresponds to a cube move, which is the effect of any sequence of rotations of the cube's faces. With this representation, not only can any cube move be represented, but also any position of the cube as well, by detailing the cube moves

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required to rotate the solved cube into that position. Indeed with the solved position as a ...

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