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# Fractional Powers of Infinitesimal Generators and the Analyticity of the Semi-groups Generated by Them

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Fractional powers of closed linear operators were first constructed by Bochner [2] and subsequently Feller [3], for the Laplacian operator. These constructions Pacific Journal of Mathematics. Fractional powers of closed operators and the semigroups generated by them a. V. balakrishnan. Vol. 10, No. 2. October 1960. Fractional powers of closed operators and the semigroups generated by them a. V. balakrishnan. We shall now obtain some properties of these operators which will qualify them to be recognized as fractional powers. First, if A does. Fractional powers of closed operators. 421.