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The major obstacle for the application of the Lie's infinitesimal techniques to the integro-differential equations or infinite systems of differential equations is that the frames of these equations are not locally defined in the space of differential functions. In consequence, the crucial idea of the splitting determining equations into the over-determined systems, commonly used in the classical Lie group analysis, fails.

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1.5.3 Lie-Backlund Symmetries 48 1.6 Approximate TransformationGroups 49 1.6.1 Approximate Transformationsand Generators 50 1.6.2 Approximate LieEquations 52 1.6.3 Approximate Symmetries 53 References 54 2 Introduction to Group Analysis and Invariant Solutions ofIntegra-Differential Equations 57 2.1 Integro-Differential Equationsin ...

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Title: Symmetries of Integro-Differential Equations: A

Symmetries of Integro-Differential Equations Zygmunt Jacek ZAWISTOWSKI Institute of Fundamental Technological Research, Polish Academy of Sciences, Swietokrzyska 21, 00-049 Warsaw, Poland E-mail: zzawist@ippt.gov.pl The Ovsiannikov method of finding Lie symmetries is generalized to the case of point

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groups for systems of differential equations. Consequently, group theoretical methods appear efficient in analyzing different phenomena using mathematical models that employ differential equations. However Lie's methods cannot be directly applied to integro-differential equations, infinite systems of differential equations, de-

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Yufeng Zhang^{1*} and Zhonglong Zhao² *Correspondence: zhangyfcumt@163.com

Lie symmetry analysis, Lie-Bäcklund symmetries, explicit

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