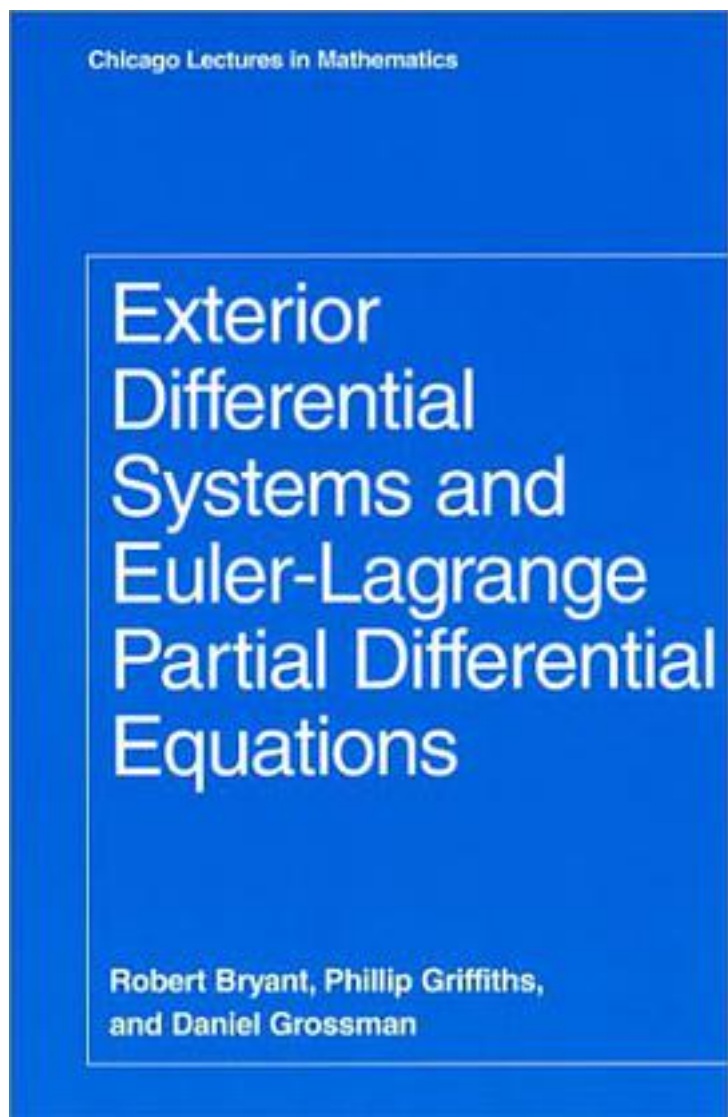


Exterior Differential Systems and Euler-Lagrange Partial Differential Equations



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出版者:University Of Chicago Press

出版时间:2003-7-1

装帧:Paperback

isbn:9780226077949

In "Exterior Differential Systems", the authors present the results of their ongoing development of a theory of the geometry of differential equations, focusing especially on Lagrangians and Poincare-Cartan forms. They also cover certain aspects of the theory of exterior differential systems, which provides the language and techniques for the entire study, because it plays a central role in uncovering geometric properties of differential equations, the method of equivalence is particularly emphasized. In addition, the authors discuss conformally invariant systems at length, including results on the classification and application of symmetries and conservation laws. The book also covers the Second Variation, Euler-Lagrange PDE systems, and higher-order conservation laws. This synthesis of partial differential equations and differential geometry should be of fundamental importance to both students and experienced researchers working in geometric analysis - a subject that has been central in mathematics worldwide for the last 30 years.

作者介绍:

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