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This textbook is designed to give graduate students an understanding of integrable systems via the study of Riemann surfaces, loop groups, and twistors. The book has its origins in a series of lecture courses given by the authors, all of whom are internationally known mathematicians and renowned expositors.

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In the context of differential equations to integrate an equation means to solve it from initial conditions.Accordingly, an integrable system is a system of differential equations whose behavior is determined by initial conditions and which can be integrated from those initial conditions.. Many systems of differential equations arising in physics are integrable.

Integrable system - Wikipedia

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