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Analytical Mechanics A.I. Lurie, 2002-03-26 This is a translation of A.I. Lurie classical Russian textbook on analytical mechanics. Part of it is based on courses formerly held by the author. It offers a consummate exposition of the subject of analytical mechanics through a deep analysis of its most fundamental concepts. The book has served as a desk text for at least two generations of researchers working in those fields where the Soviet Union accomplished the greatest technological breakthrough of the XX century: a race into space. Those and other related fields continue to be intensively explored since then and the book clearly demonstrates how the fundamental concepts of mechanics work in the context of up to date engineering problems. This book will help researchers and graduate students to acquire a deeper insight into analytical

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