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by storm with his paper
on punctuated
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core assumption of
Darwin's theory of
evolution, it launched the
controversial idea that the
majority of species

originates in geological
moments (punctuations)
and persists in stasis.
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later, Punctuated
Equilibrium offers his only
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a theory he fiercely

promoted, repeatedly refined, and tirelessly defended.

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Bushra Arshad

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A Critical Review of Equilibrium Data for Proton- and Metal Complexes of 1,10-Phenanthroline, 2,2'-Bipyridyl and Related Compounds is a compilation of acidity constants for the 1,10-phenanthroline and 2,2'-bipyridinium ions and

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complexes. The compilation indicates the conditions under which the equilibrium constants apply and the methods by which they were determined. The acid-base properties of the compounds are represented by the acidity constant of the phenanthroline or bipyridinium ion expressed as a pK value. Nearly all the values listed were obtained either potentiometrically or spectrophotometrically, both of which depend fundamentally on

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Overview The main objective of a first course in mechanics should be to develop in the engineering student the ability to analyze any

problem in a simple and logical manner and to apply to its solution a few, well-understood, basic principles. This text is designed to help the instructor achieve this goal. Vector analysis is introduced early in the text and is used in the presentation and discussion of the fundamental principles of mechanics. Vector methods are also used to solve many problems, particularly three-dimensional problems where these techniques result in a simpler and

more concise solution. The emphasis in this text, however, remains on the correct understanding of the principles of mechanics and on their application to the solution of engineering problems, and vector analysis is presented chiefly as a convenient tool. In order to achieve the goal of being able to analyze mechanics problems, the text employs the following pedagogical strategy: Practical applications are introduced early. New concepts are introduced simply. Fundamental

principles are placed in simple contexts. Students are given extensive practice through: sample problems, special sections entitled Solving Problems on Your Own, extensive homework problem sets, review problems at the end of each chapter, and computer problems designed to be solved with computational software. Resources Supporting This Textbook Instructor's and Solutions Manual features typeset, one-per-page solutions to the end of chapter problems. It also features

a number of tables designed to assist instructors in creating a schedule of assignments for their course. The various topics covered in the text have been listed in Table I and a suggested number of periods to be spent on each topic has been indicated. Table II prepares a brief description of all groups of problems. Sample lesson schedules are shown in Tables III, IV, and V, together with various alternative lists of assigned homework problems. For additional

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