

Bipolar And Multipolar Coordinates

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Bipolar or multipolar coordinates offer useful insights and advantages over Cartesian coordinates in certain geometrical problems. In bipolar coordinates (r 1, r 2) the "simplest" curves are the conics, ovals of Cassini, Cartesian ovals, and their special cases, which are characterized by linear or hyperbolic relations in the (r 1, r 2) plane

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Bipolar And Multipolar Coordinates

Bipolar coordinates are a two-dimensional orthogonal coordinate system based on the Apollonian circles. Confusingly, the same term is also sometimes used for two-center bipolar coordinates. There is also a third system, based on two poles. The term "bipolar" is further used on occasion to describe other curves having two singular points, such as ellipses, hyperbolas, and Cassini ovals. However, the term bipolar coordinates is reserved for the coordinates described here, and never used for system

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bipolar coordinate parameters a, β and u to the radii R_1 and center-separation b of the cylinders. This This allows the capacitance to be expressed in terms of R_1 , R_2 and b .

Bipolar Coordinates and the Two-Cylinder Capacitor

Polarity in international relations is any of the various ways in which power is distributed within the international system. It describes the nature of the international system at any given period of time. One generally distinguishes three types of systems: unipolarity, bipolarity, and multipolarity for three or more centers of power. The type of system is completely dependent on the ...

Polarity (international relations) - Wikipedia

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Bipolar neurons are also the functional units of the vestibular system, which plays an important role in maintaining our balance. This vestibular system that is made of vestibular receptors, nerves, and ganglion, are also present in the inner ear and convey sensory data to the brain, which contributes in maintaining upright posture and coordinating head and eye movement.

Understanding the Location, Structure, and Function of ...

External balancing emanates from entrance into alliances with other states to test the strength of stronger states or alliances (Lane & Maeland, 2008). There are basically three likely types of systems international system on the basis of the changes in distribution of abilities: Unipolar, Bipolar, and Multipolar (Mearsheimer, 2001).

Academic Excellence: Unipolar, Bi-polar, Multipolar ...

The most common definition of bipolar coordinates (β , γ) is, where the β -coordinate of a point P equals the angle F1 P F2 and the γ -coordinate equals the natural logarithm of the ratio of the distances d1 and d2 to the foci. (Recall that F1 and F2 are located at (β a , 0) and (a , 0), respectively.) Equivalently,

These proceedings collect the papers accepted for presentation at the bien nial IMA Conference on the Mathematics of Surfaces, held in the University of Cambridge, 4-7 September 2000. While there are many international conferences in this fruitful borderland of mathematics, computer graphics and engineering, this is the oldest, the most frequent and the only one to concern trate on surfaces. Contributors to this volume come from twelve different countries in Eu rope, North America and Asia. Their contributions reflect the wide diversity of present-day applications which include modelling parts of the human body for medical purposes as well as the production of cars, aircraft and engineer ing components. Some applications involve design or construction of surfaces by interpolating or approximating data given at points or on curves. Others consider the problem of 'reverse engineering' -giving a mathematical description of an already constructed object. We are particularly grateful to Pamela Bye (at the Institute of Mathematics and its Applications) for help in making arrangements; Stephanie Harding and Karen Barker (at Springer Verlag, London) for publishing this volume and to Kwan-Yee Kenneth Wong (Cambridge) for his heroic help with compiling the proceedings and for dealing with numerous technicalities arising from large and numerous computer files. Following this Preface is a listing of the programme committee who with the help of their colleagues did much work in refereeing the papers for these proceedings.

This book constitutes the refereed proceedings of the 6th International Conference on Geometric Modeling and Processing, GMP 2010, held in Castro Urdiales, Spain, in June 2010. The 20 revised full papers presented were carefully reviewed and selected from a total of 30 submissions. The papers cover a wide spectrum in the area of geometric modeling and processing and address topics such as solutions of transcendental equations; volume parameterization; smooth curves and surfaces; isogeometric analysis; implicit surfaces; and computational geometry.

V.1. A.N. v.2. O.Z. Appendices and indexes.

The theory of incompressible multipolar viscous fluids is a non-Newtonian model of fluid flow, which incorporates nonlinear viscosity, as well as higher order velocity gradients, and is based on scientific first principles. The Navier-Stokes model of fluid flow is based on the Stokes hypothesis, which a priori simplifies and restricts the relationship between the stress tensor and the velocity. By relaxing the constraints of the Stokes hypothesis, the mathematical theory of multipolar viscous fluids generalizes the standard Navier-Stokes model. The rigorous theory of multipolar viscous fluids is compatible with all known thermodynamical processes and the principle of material frame indifference; this is in contrast with the formulation of most non-Newtonian fluid flow models which result from ad hoc assumptions about the relation between the stress tensor and the velocity. The higher-order boundary conditions, which must be formulated for multipolar viscous flow problems, are a rigorous consequence of the principle of virtual work; this is in stark contrast to the approach employed by authors who have studied the regularizing effects of adding artificial viscosity, in the form of higher order spatial derivatives, to the Navier-Stokes model. A number of research groups, primarily in the United States, Germany, Eastern Europe, and China, have explored the consequences of multipolar viscous fluid models; these efforts, and those of the authors, which are described in this book, have focused on the solution of problems in the context of specific geometries, on the existence of weak and classical solutions, and on dynamical systems aspects of the theory. This volume will be a valuable resource for mathematicians interested in solutions to systems of nonlinear partial differential equations, as well as to applied mathematicians, fluid dynamicists, and mechanical engineers with an interest in the problems of fluid mechanics.

"This book compiles studies that demonstrate effective approaches to the structural analysis of genetic systems and bioinformatics"--Provided by publisher.

Wilhelm His, one of the founders of developmental neurobiology, was convinced "that the processes of generation and development obey fundamental and simple laws and submit to the general laws of nature" (His 1901). Therefore, we should be able to find immediate conditions, dependencies and rules determining the development of an organic form. With this in mind, His (1874) defined the task of embryology as follows: "Developmental biology is essentially a physiological science; it has not only to describe how each individual form develops from the egg, it has to derive this development in such a way that each developmental stage together with all its specialities appears as a necessary consequence of the immediately preceding stage . . . Only if developmental biology has given a perfect physiological derivation for any given form, has it the right to say that it has explained this individual form. " The ultimate aim of a physiological derivation would be that laws of growth valid for organic beings can be expressed as mathematical formulae (His 1874). To exemplify this, he formulated a universal and purely formal law of growth in mathematical terms making the comment: "I now suggest that the body form follows immediately from germinal growth and can be derived from the given germinal form according to the laws of growth. My interest is, therefore, firstly to detect the law of growth empirically and secondly to derive consecutive forms of the developing organism by applying this law.

The book provides 20 Practice Sets – 5 Preliminary Exam Sets + 15 Main Mains Exam Sets (11 in the book and 4 Online) designed exactly on the pattern of the latest IBPS Bank Clerk Exam. • The book also contains past solved papers from 2011-2016 with prelim exam papers of 2015-16 • Each Preliminary Practice Set contains all the 3 sections – Numerical Ability , Reasoning Ability and English Language as per the latest pattern. • The Main Mains Set contains all the 5 sections English Language, Quantitative Aptitude, Reasoning Ability, Computer Knowledge & General Awareness (with special reference to Banking Industry) as per the latest pattern. • The solution to each set is provided at the end of the set. • The book has been empowered with 4 Online Tests with Insta Results, so to provide an ONLINE cum REALTIME exposure to the students.

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