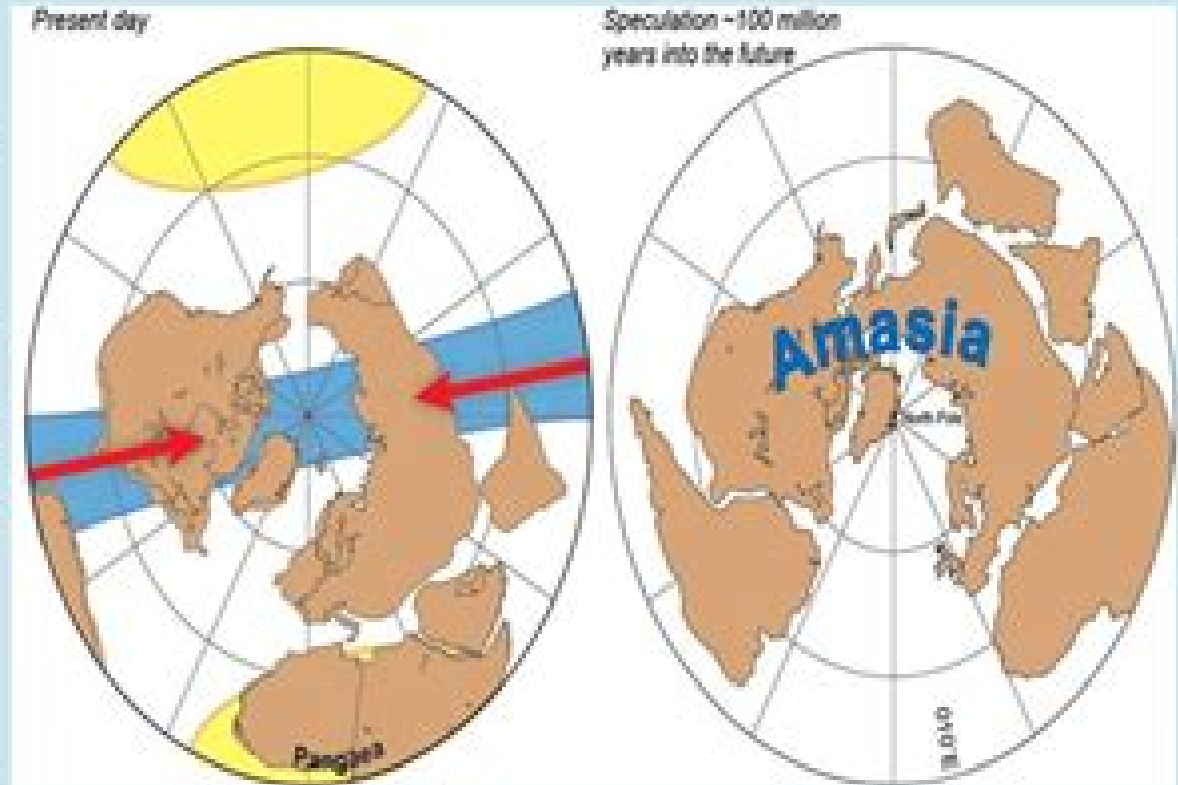


Our next supercontinent, maybe?

The Earth has been covered by giant combinations of continents, called supercontinents, many times in its past, and it will be again one day in the distant future. The next predicted supercontinent, dubbed Amasia, may form when the Americas and Asia both drift northward to merge, closing off the Arctic Ocean, researchers suggest. Conventional models of how supercontinents evolve suggest they form on top of the previous supercontinent, known as introversion, or on the opposite side of the world from that supercontinent, known as extroversion. Under these models Amasia would therefore either form where Pangaea once was, with the Americas meeting with Asia to close off the Atlantic Ocean, or form on the other side of the planet from where Pangaea was, with the Americas merging with Asia to close off the Pacific Ocean.



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Frederick Y. M. Wan



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Mathematical Models and Their Analysis Frederick Y. M. Wan, 2018-03-20 A great deal can be learned through modeling and mathematical analysis about real life phenomena even before numerical simulations are used to accurately portray the specific configuration of a situation Scientific computing also becomes more effective and efficient if it is preceded by some preliminary analysis These important advantages of mathematical modeling are demonstrated by models of historical importance in an easily understandable way The organization of Mathematical Models and Their Analysis groups models by the issues that need to be addressed about the phenomena The new approach shows how mathematics effective for one modeled phenomenon can be used to analyze another unrelated problem For instance the mathematics of differential equations useful in understanding the classical physics of planetary models fluid motion and heat conduction is also applicable to the seemingly unrelated phenomena of traffic flow and congestion offshore sovereignty and regulation of overfishing and deforestation The formulation and in depth analysis of these and other models on modern social issues such as the management of exhaustible and renewable resources in response to consumption demands and economic growth are of increasing concern to students and researchers of our time The modeling of current social issues typically starts with a simple but meaningful model that may not capture all the important elements of the phenomenon Predictions extracted from such a model may be informative but not compatible with all known observations so the model may require improvements The cycle of model formulation analysis interpretation and assessment is made explicit for the modeler to repeat until a model is validated by consistency with all known facts

Mathematical Models in Natural Science and Engineering Juri I. Neimark, 2012-12-06 This book has come into being as a result of the author's lectures on mathematical modelling rendered to the students BS and MS degree holders specializing in applied mathematics and computer science and to post graduate students in exact sciences of the Nizhny Novgorod State University after N Lobachevsky These lectures are adapted and presented as a single whole about mathematical models and modelling This new course of lectures appeared because the contemporary Russian educational system in applied mathematics rested upon a combination of fundamental and applied mathematics training this way of training oriented students upon solving only the exactly stated mathematical problems and thus there was created a certain estrangement to the most essential stages and sides of real solutions for applied problems such as thinking over and deeply piercing the essence of a specific problem and its mathematical statement This statement embraces simplifications adopted idealizations and creating a mathematical model its correction and matching the results obtained against a real system There also existed another main objective namely to orient university graduates in their future research not only upon purely mathematical issues but also upon comprehending and widely applying mathematics as a universal language of contemporary exact science and mathematical modelling as a powerful means for studying nature engineering and human society

Mathematical Models in the Applied Sciences A. C.

Fowler,1997-11-28 Presents a thorough grounding in the techniques of mathematical modelling and proceeds to explore a range of classical and continuum models from an array of disciplines *Elementary Mathematical Models* Dan Kalman,1997 Explains the relevance and importance of mathematical modelling for a non technical audience **Mathematical Models** Henry Martyn Cundy,1968 *Mathematical Models in Applied Mechanics* Alan B. Tayler,2001 This textbook demonstrates the power of mathematics in solving practical scientific and technical problems through mathematical modelling techniques It has been designed specifically for final year undergraduate and graduate students and springs from the author s extensive teaching experience The text is combined with twenty one carefully ordered problems taken from real situations and students are encouraged to develop the skill of constructing their own models of new situations *Mathematical Modeling* Christof Eck,Harald Garcke,Peter Knabner,2017-04-11 Mathematical models are the decisive tool to explain and predict phenomena in the natural and engineering sciences With this book readers will learn to derive mathematical models which help to understand real world phenomena At the same time a wealth of important examples for the abstract concepts treated in the curriculum of mathematics degrees are given An essential feature of this book is that mathematical structures are used as an ordering principle and not the fields of application Methods from linear algebra analysis and the theory of ordinary and partial differential equations are thoroughly introduced and applied in the modeling process Examples of applications in the fields electrical networks chemical reaction dynamics population dynamics fluid dynamics elasticity theory and crystal growth are treated comprehensively **Mathematical Modeling** Sandip Banerjee,2014-02-07 Almost every year a new book on mathematical modeling is published so why another The answer springs directly from the fact that it is very rare to find a book that covers modeling with all types of differential equations in one volume Until now Mathematical Modeling Models Analysis and Applications covers modeling with all kinds of differential equations namely ordinary partial delay and stochastic The book also contains a chapter on discrete modeling consisting of differential equations making it a complete textbook on this important skill needed for the study of science engineering and social sciences More than just a textbook this how to guide presents tools for mathematical modeling and analysis It offers a wide ranging overview of mathematical ideas and techniques that provide a number of effective approaches to problem solving Topics covered include spatial delayed and stochastic modeling The text provides real life examples of discrete and continuous mathematical modeling scenarios MATLAB and Mathematica are incorporated throughout the text The examples and exercises in each chapter can be used as problems in a project Since mathematical modeling involves a diverse range of skills and tools the author focuses on techniques that will be of particular interest to engineers scientists and others who use models of discrete and continuous systems He gives students a foundation for understanding and using the mathematics that is the basis of computers and therefore a foundation for success in engineering and science streams **Mathematical Models and Applications** Daniel P. Maki,Maynard Thompson,1973 This book began as lecture notes developed in connection with a course of the same name

given since 1968 at Indiana University The audience can be loosely grouped as follows junior and senior mathematics majors many of whom contemplate graduate work in other fields undergraduate and graduate students majoring in the social and life sciences and in business and prospective secondary teachers of mathematics In addition portions of the material have been used in NSF institutes for mathematics teachers The goal of the course has been to provide the student with an appreciation for an understanding of and a facility in the use of mathematics in other fields The role of mathematical models in explaining and predicting phenomena arising in the real world is the central theme Preface Mathematical Models with Applications COMAP,2001-06-15 An innovative course that offers students an exciting new perspective on mathematics Mathematical Models with Applications explores the same types of problems that math professionals encounter daily The modeling process forming a theory testing it and revisiting it based on the results of the test is critical for learning how to think mathematically Demonstrating this ability can open up a wide range of educational and professional opportunities for students Mathematical Models with Applications has been designed for students who have completed Algebra I or Geometry and see this as the final course in their high school mathematics sequence or who would like additional math preparation before Algebra II Mathematical Models with Applications ListServ As a service to instructors using Mathematical Models with Applications a listserv has been designed as a forum to share ideas ask questions and learn new ways to enhance the learning experience for their students

Unveiling the Power of Verbal Art: An Emotional Sojourn through **2012 Tesccc Mathematical Models**

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