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* Provides detailed procedures for performing hundreds of chemical engineering calculations along with fully worked-out examples The introduction of contaminants, due to rapid urbanization and anthropogenic activities into the environment, causes distress to the physio-chemical systems including living organisms, which possibly is threatening the dynamics of nature as well as the soil biology by producing certain xenobiotics. Hence, there is an immediate global demand for the diminution of such contaminants and xenobiotics that can otherwise adversely

affect the living organisms. Some toxic xenobiotics include synthetic organochlorides such as PAHs and some fractions of crude oil and coal. Over time, microbial remediation processes have been accelerated to produce better, more eco-friendly, and more biodegradable solutions for complete dissemination of these xenobiotic compounds. The advancements in microbiology and biotechnology led to the launch of microbial biotechnology as a separate area of research and contributed dramatically to the development of areas like agriculture, environment, biopharmaceuticals, fermented foods, and more. The Handbook of Research on Microbial Remediation and Microbial Biotechnology for Sustainable Soil provides a detailed comprehensive account for microbial treatment technologies, bioremediation strategies, biotechnology, and the important microbial species involved in remediation. The chapters focus on recent developments in microbial biotechnology in the areas of agriculture and environment and the physiology, biochemistry, and the mechanisms of remediation along with a future outlook. This book is ideal for scientists, biologists, academicians, students, and researchers in the fields of life sciences, microbiology, environmental science, environmental engineering, biotechnology, agriculture, and health sciences. This book is for engineers and students to solve issues concerning the fluidized bed systems. It presents an analysis that focuses directly on the problem of predicting the fluid dynamic behavior which empirical data is limited or unavailable. The second objective is to provide a treatment of computational fluidization dynamics that is readily accessible to the non-specialist. The approach adopted in this book, starting with the formulation of predictive expressions for the basic conservation equations for mass and momentum using kinetic theory of granular flow. The analyses presented in this book represent a body of simulations and experiments research that has appeared in numerous publications over the last 20 years. This material helps to form the basis for university course modules in engineering and applied science at undergraduate and graduate level, as well as focused, post-experienced courses for the process, and allied industries. Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries. It is necessary to develop new techniques for managing data in order to ensure adequate usage. Deep learning, a subset of artificial intelligence and machine learning, has been recognized in various real-world applications such as computer vision, image processing, and pattern recognition. The deep learning approach has opened new opportunities that can make such real-life applications and tasks easier and more efficient. Deep Learning and Neural Networks: Concepts, Methodologies, Tools, and Applications is a vital reference source that trends in data analytics and potential technologies that will facilitate insight in various domains of science, industry, business, and consumer applications. It also explores the latest concepts, algorithms, and techniques of deep learning and data mining and analysis. Highlighting a range of topics such as natural language processing, predictive analytics, and deep neural networks, this multi-volume book is ideally designed for computer engineers, software developers, IT professionals, academicians, researchers, and upper-level students seeking current research on the latest trends in the field of deep learning. Processing of Solid-Liquid Suspensions is a collection of articles from several industrialists and academicians who are active in fundamental and applied research relating to handling and processing of particles in liquids. This collection of papers deals with the processes of interaction of particles with each other, with the surrounding liquid and process equipment, whereby knowledge of the mechanism of these interactions can be a sound basis for improving the design of the process equipment and create an optimum environment for the formation and processing of the particulate. The above notion is explained through analysis of the role of turbulent aggregation and breakup of particles in the formation of many solid products from aqueous solutions. This book also analyzes particle size and particulate crystals, whether as final products

or as intermediates during processing. In the purification of proteins, two essential units of operation are used; precipitation and solid-liquid separation are analyzed, where theoretical considerations are reviewed. This text also discusses the application of model suspensions in the design of aerobic fermenters in practical industrial uses. High concentration of suspension preparations and solid suspension in liquid flourized beds or in stirred vessels are explained in more detail as to how these affect certain industries. This selection finally presents the progress made in developing design and methods needed by industry. Researchers, chemists, and scientists in industry, as well as advanced students with interests in formation and processing of stable suspensions and in advanced process engineering courses will find this textbook a valuable aid. The objective is to provide the latest developments in the area of soft computing. These are the cutting edge technologies that have immense application in various fields. All the papers will undergo the peer review process to maintain the quality of work. Solve chemical engineering problems quickly and accurately Fully revised throughout with new procedures, Handbook of Chemical Engineering Calculations, Fourth Edition shows how to solve the main process-related problems that often arise in chemical engineering practice. New calculations reflect the latest green technologies and environmental engineering standards. Featuring contributions from global experts, this comprehensive guide is packed with worked-out numerical procedures. Practical techniques help you to solve problems manually or by using computer-based methods. By following the calculations presented in this book, you will be able to achieve accurate results with minimal time and effort. Coverage includes: Physical and chemical properties Stoichiometry Phase equilibrium Chemical reaction equilibrium Reaction kinetics, reactor design, and system thermodynamics Flow of fluids and solids Heat transfer Distillation Extraction and leaching Crystallization Absorption and stripping Liquid agitation Size reduction Filtration Air pollution control Water pollution control Biotechnology Cost engineering A practical and hands-on discussion of modern distillation control In A Real-time Approach to Distillation Process Control, a team of distinguished researchers and industrial practitioners delivers a practical text combining hands-on and active learning using process simulation with discussions of the fundamental knowledge and tools required to apply modern distillation control principles. The book offers a balanced, real-time approach integrated with practical insights. It includes many exercises designed to be simulator agnostic that can be performed on the process simulator locally available to the reader. Readers will discover explorations of topics including distillation control hardware, distillation composition control, refinery versus chemical plant distillation control, distillation control tuning, advanced regulatory control, and more. They'll also find: A thorough introduction to distillation fundamentals, as well as basic and advanced modern controls from a practical point of view Comprehensive explorations of known base controls combined with modern control practices Practical discussions of hands-on modelling and simulation exercises, allowing the reader to design and tune controls on a distillation column Fulsome treatments of control structure design integrated with controller tuning using a real-time approach Perfect for senior undergraduate and graduate students studying general process control or distillation process control, A Real-time Approach to Distillation Process Control will also benefit plant managers, production supervisors, startup supervisors, operations engineers, production engineers, and chemical engineers working in industry. to the Third Edition Following the success of the first two editions of this book in which the core subject matter has been retained, we have taken the opportunity to add substantial new material, including an additional chapter on that most important activity of the chemical industry, research and development. Topical items such as quality, safety and environmental issues also receive enhanced coverage. The team of authors for this edition comprises both those revising and

updating their chapters and some new ones. The latter's different approach to the subject matter is reflected in the new titles: Organisational Structures - A Story of Evolution (chapter 5) and Environmental Impact of the Chemical Industry (chapter 9). The chapter on Energy retains its original title but different approach of the new authors is evident. We have updated statistics and tables wherever possible and expanded the index. We hope readers find the brief 'pen pictures' of authors to be interesting. It is worth stressing again that this book is designed to be used with its companion volume - The Chemical Industry, 2nd Edition, ed. Alan Heaton (referred to as Volume 2) - for a complete introduction to the chemical industry. Thanks are due to all contributors and to my wife Joy for typing my contributions. Modern optimization approaches have attracted an increasing number of scientists, decision makers, and researchers. As new issues in this field emerge, different optimization methodologies must be developed and implemented. The Handbook of Research on Emergent Applications of Optimization Algorithms is an authoritative reference source for the latest scholarly research on modern optimization techniques for solving complex problems of global optimization and their applications in economics and engineering. Featuring coverage on a broad range of topics and perspectives such as hybrid systems, non-cooperative games, and cryptography, this publication is ideally designed for students, researchers, and engineers interested in emerging developments in optimization algorithms. The communication field is evolving rapidly in order to keep up with society's demands. As such, it becomes imperative to research and report recent advancements in computational intelligence as it applies to communication networks. The Handbook of Research on Recent Developments in Intelligent Communication Application is a pivotal reference source for the latest developments on emerging data communication applications. Featuring extensive coverage across a range of relevant perspectives and topics, such as satellite communication, cognitive radio networks, and wireless sensor networks, this book is ideally designed for engineers, professionals, practitioners, upper-level students, and academics seeking current information on emerging communication networking trends. Many food ingredients are supplied in powdered form, as reducing water content increases shelf life and aids ease of storage, handling and transport. Powder technology is therefore of great importance to the food industry. The Handbook of food powders explores a variety of processes that are involved in the production of food powders, the further processing of these powders and their functional properties. Part one introduces processing and handling technologies for food powders and includes chapters on spray, freeze and drum drying, powder mixing in the production of food powders and safety issues around food powder production processes. Part two focusses on powder properties including surface composition, rehydration and techniques to analyse the particle size of food powders. Finally, part three highlights speciality food powders and includes chapters on dairy powders, fruit and vegetable powders and coating foods with powders. The Handbook of food powders is a standard reference for professionals in the food powder production and handling industries, development and quality control professionals in the food industry using powders in foods, and researchers, scientists and academics interested in the field. Explores the processing and handling technologies in the production of food powders Examines powder properties, including surface composition, shelf life, and techniques used to examine particle size Focusses on speciality powders such as dairy, infant formulas, powdered egg, fruit and vegetable, and culinary and speciality products Biotechnology Biotechnology is now now established established as as a major major area area of of technology, technology, concerned concerned with with the' the' application application of of biological biological organisms, organisms, systems systems or or processes processes to to manufac turing turing or or service service industries'. industries'. Although Although the the exploitation exploitation

of organisms by man is not new, many of the techniques which are stimulating the rapid advances in biotechnology have developed from recent scientific discoveries. Throughout history man has, knowingly or not, been exploiting yeast in the production of alcoholic beverages and bread, and these processes still represent major biotechnological industries. The brewer's and baker's yeast *Saccharomyces cerevisiae* is, however, also a favoured organism for the production of many new biotechnological products. The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems. Consolidating information which is currently scattered across a wide variety of literature sources, the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems. The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth, and environmental, social and economic impacts are also addressed. Topics covered include: Volume 1 - Renewable Energy: Biomass resources and biofuel production; Bioenergy Utilization; Solar Energy; Wind Energy; Geothermal Energy; Tidal Energy. Volume 2 - Clean Energy Conversion Technologies: Steam/Vapor Power Generation; Gas Turbines Power Generation; Reciprocating Engines; Fuel Cells; Cogeneration and Polygeneration. Volume 3 - Mitigation Technologies: Carbon Capture; Negative Emissions System; Carbon Transportation; Carbon Storage; Emission Mitigation Technologies; Efficiency Improvements and Waste Management; Waste to Energy. Volume 4 - Intelligent Energy Systems: Future Electricity Markets; Diagnostic and Control of Energy Systems; New Electric Transmission Systems; Smart Grid and Modern Electrical Systems; Energy Efficiency of Municipal Energy Systems; Energy Efficiency of Industrial Energy Systems; Consumer Behaviors; Load Control and Management; Electric Car and Hybrid Car; Energy Efficiency Improvement. Volume 5 - Energy Storage: Thermal Energy Storage; Chemical Storage; Mechanical Storage; Electrochemical Storage; Integrated Storage Systems. Volume 6 - Sustainability of Energy Systems: Sustainability Indicators, Evaluation Criteria, and Reporting; Regulation and Policy; Finance and Investment; Emission Trading; Modeling and Analysis of Energy Systems; Energy vs. Development; Low Carbon Economy; Energy Efficiencies and Emission Reduction. Key features: Comprising over 3,500 pages in 6 volumes, HCES presents a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems, consolidating a wealth of information which is currently scattered across a wide variety of literature sources. In addition to renewable energy systems, HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of intelligent energy systems. Environmental, social and economic impacts of energy systems are also addressed in depth. Published in full colour throughout. Fully indexed with cross referencing within and between all six volumes. Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields. Published in print and online. The online version is a single publication (i.e. no updates), available for one-time purchase or through annual subscription. This major new edition of a popular undergraduate text covers topics of interest to chemical

engineers taking courses on fluid flow. These topics include non-Newtonian flow, gas-liquid two-phase flow, pumping and mixing. It expands on the explanations of principles given in the first edition and is more self-contained. Two strong features of the first edition were the extensive derivation of equations and worked examples to illustrate calculation procedures. These have been retained. A new extended introductory chapter has been provided to give the student a thorough basis to understand the methods covered in subsequent chapters. The Handbook of Labor Statistics is recognized as an authoritative resource on the U.S. labor force. It continues and enhances the Bureau of Labor Statistics's (BLS) discontinued publication, Labor Statistics. The 15th Edition allows the user to understand recent developments as well as to compare today's economy with past history. The Handbook is a comprehensive reference providing an abundance of data on a variety of topics including: employment and unemployment earnings prices productivity consumer expenditures occupational safety and health union membership international labor comparisons and much more! Features of the publication In addition to over 200 tables that present practical data, the Handbook provides: introductory material for each chapter that contains highlights of salient data and figures that call attention to noteworthy trends in the data notes and definitions, which contain concise descriptions of the data sources, concepts, definitions, and methodology from which the data are derived references to more comprehensive reports which provide additional data and more extensive descriptions of estimation methods, sampling, and reliability measures New in the 15th Edition: Drying and storage are two significant unit operations in the food industry and are applied to both raw and processed products including cereal grains, oilseeds, legumes, flour, noodle, coffee, and cornstarch. The common characteristic of these materials is that all of them are hygroscopic and contain water. The hygroscopic properties are influenced by their physical properties, which are influenced by their storage environments such as bins, warehouses, bunkers, and temporary storage structures. This book focuses on the storage and drying of bulk products in these storage structures. On many occasions in our work with the grain storage and drying personnel especially our graduate students and industry contacts, we found a book explaining the fundamental principles of grain storage and drying is needed. Therefore, the primary objective of this book is to help readers understand the fundamental principles of grain storage and drying and develop a well-informed approach to solve grain storage and drying problems. Technologies for grain storage and drying are advanced through research; therefore, literature review and background on each topic has also been included. The book is generally intended for grain storage and drying students, engineers, and scientists. As reflected in the contents which are presented at several levels of depth, this book will serve well readers with different backgrounds and interests. An effort has been made to allow for independent reading of different sections, and to make a large part of this work accessible to a non-mathematical audience. The authors have combined their experience of teaching grain storage and drying to undergraduate and graduate students in the faculties of Agricultural and Food Sciences and Engineering. Material in the book is organized into broad topic areas: physical properties (Chapters 1 and 2), grain temperature and moisture (Chapters 2 and 6), water in biomaterials and relationship with its environment (Chapter 3), fundamental principles of aeration, drying, and rewetting (Chapter 4), and mathematical modelling of isotherm, drying, and re-wetting (Chapter 5). We hope our readers will benefit from the contents of the book for many decades.

Ojedín?lý pr?vodce sv?tem technologických staveb seznamuje se všemi hlavními ?innosti projektového manažera p?i p?íprav? a realizaci staveb, kde hlavní slovo mají výrobní technologie. Publikace p?ehledn? a systematicky popisuje celý investiční proces od výb?ru neekonomičt?jší varianty p?es projektový návrh, legislativní p?ípravu stavby až po vlastní výstavbu a garanční testy technologie. Kniha poskytuje základní

orientaci p?i v?yb?ru dodavatel? a n?vod jak uzav?rat smlouvy. ?ten?i?i ocen?i podrobn?y postup pro stanoven? cen za projek?n?i a in?en?yrsk? ?innosti a pro odhad n?klad?. Kniha obsahuje ?adu konkr?tn?ch p?fkklad? a sch?mat. The Handbook of U.S. Labor Statistics is recognized as an authoritative resource on the U.S. labor force. It continues and enhances the Bureau of Labor Statistics's (BLS) discontinued publication, Labor Statistics. The 16th Edition allows the user to understand recent developments as well as to compare today's economy with past history. The Handbook is a comprehensive reference providing an abundance of data on a variety of topics including: employment and unemployment earnings prices productivity consumer expenditures occupational safety and health union membership international labor comparisons and much more! Features of the publication In addition to over 200 tables that present practical data, the Handbook provides: introductory material for each chapter that contains highlights of salient data and figures that call attention to noteworthy trends in the data notes and definitions, which contain concise descriptions of the data sources, concepts, definitions, and methodology from which the data are derived references to more comprehensive reports which provide additional data and more extensive descriptions of estimation methods, sampling, and reliability measures The 16th edition includes several new features including: A new chapter titled Green Jobs, Technologies, and Practices. This chapter includes data on companies that use environmentally friendly practices and on establishments that produce green goods and services. Chapter 1 includes a section on the employment situation of veterans for the first time since the 2009 edition. In addition, more tables on employee tenure have been added. Tables on eldercare have been added in Chapter 12: American Time Use Survey. Chapter 6 includes a table on workplaces that provide "quality of life" benefits including childcare, subsidized commuting, and flexible workplaces. New figures on a variety of topics including the labor force, employee compensation, consumer expenditures, and international labor comparisons have been added throughout the book. Las (mal llamadas) clases de problemas constituyen una herramienta fundamental en cualquier disciplina cient?fica. Tradicionalmente, estas clases cumplen el objetivo de complementar aspectos m?s o menos dif?ciles de la disciplina en cuesti?n. Sin embargo, deber?an entenderse m?s como un entrenamiento que capacite al estudiante para resolver cualquier problema (en sentido amplio) que se le pueda plantear en su vida profesional. Con este esp?ritu se concibe esta colecci?n de "Problemas resueltos" que Ediciones Paraninfo pone a disposici?n de profesores y estudiantes de una gran variedad de disciplinas acad?micas. ***** Las operaciones de separaci?n son una de las "claves de b?veda" de la ingenier?a qu?mica, ya que suponen un alto porcentaje del coste total de la mayor?a de procesos qu?micos industriales. Este libro, a partir de principios b?sicos como los balances de materia y energ?a, equilibrios de fases y procesos de transporte, resuelve casos pr?cticos de cuatro de las operaciones m?s utilizadas. Al emplear de manera comparada los m?todos gr?ficos tradicionales y los m?todos num?ricos actuales en base a programaci?n con Matlab ?, el libro ser? ?til tanto para alumnos de grado (m?todos gr?ficos) como para alumnos de m?ster (m?todos num?ricos). Atendiendo a criterios pedag?gicos, gracias a este libro la transici?n de unos m?todos a otros resulta mucho m?s sencilla. Los programas de Matlab? que se suministran junto con el libro (a trav?s de la p?gina web www.paraninfo.es) permiten al profesor generar de una manera f?cil y r?pida nuevos ejemplos. Alumnos de Ingenier?a Qu?mica, Qu?mica, Biotecnolog?a, Ingenier?a de alimentos, Farmacia, etc. pueden beneficiarse, en mayor o menor medida, de los contenidos aqu? incluidos. Solve chemical engineering problems quickly and accurately Fully revised throughout with new procedures, Handbook of Chemical Engineering Calculations, Fourth Edition shows how to solve the main process-related problems that often arise in chemical engineering practice. New calculations reflect the latest green technologies and environmental engineering standards. Featuring

contributions from global experts, this comprehensive guide is packed with worked-out numerical procedures. Practical techniques help you to solve problems manually or by using computer-based methods. By following the calculations presented in this book, you will be able to achieve accurate results with minimal time and effort. Coverage includes: Physical and chemical properties Stoichiometry Phase equilibrium Chemical reaction equilibrium Reaction kinetics, reactor design, and system thermodynamics Flow of fluids and solids Heat transfer Distillation Extraction and leaching Crystallization Absorption and stripping Liquid agitation Size reduction Filtration Air pollution control Water pollution control Biotechnology Cost engineering The first International Conference on Engineering Solutions and Sustainable Development which is organized by the University of Miskolc, Hungary is a significant and timely initiative creating the capacity of engineering students, educators, practicing engineers and industries to demonstrate values, problem solving skills, knowledge, and attitude that are required to apply the principles of sustainable development throughout their professional career. The aim of the ICESSD conference was creating an interdisciplinary platform for researchers and practitioners to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Technical and Environmental Science. The conference covers the following topics: Process Engineering, Modelling and Optimisation Sustainable and Renewable Energy and Energy Engineering Waste Management and Reverse Logistics Environmental Management and Ecodesign Circular Economy and Life Cycle Approaches Smart Manufacturing and Smart Buildings Innovation and Efficiency Earth Science Academics, scientists, researchers and professionals from different countries and continents have contributed to this book. The remediation of environmental pollutants has become a relevant topic within the field of waste management. Advances in biological approaches are a potential tool for contamination and pollution control. The Handbook of Research on Microbial Tools for Environmental Waste Management is a critical scholarly resource that explores the advanced biological approaches that are used as remediation for pollution cleanup processes. Featuring coverage on a broad range of topics such as biodegradation, microbial dehalogenation, and pollution controlling treatments, this book is geared towards environmental scientists, biologists, policy makers, graduate students, and scholars seeking current research on environmental engineering and green technologies. For undergraduates. Fluidized bed (FB) combustion and gasification are advanced techniques for fuel flexible, high efficiency and low emission conversion. Fuels are combusted or gasified as a fluidized bed suspended by jets with sorbents that remove harmful emissions such as SO_x. CO₂ capture can also be incorporated. Fluidized bed technologies for near-zero emission combustion and gasification provides an overview of established FB technologies while also detailing recent developments in the field. Part one, an introductory section, reviews fluidization science and FB technologies and includes chapters on particle characterization and behaviour, properties of stationary and circulating fluidized beds, heat and mass transfer and attrition in FB combustion and gasification systems. Part two expands on this introduction to explore the fundamentals of FB combustion and gasification including the conversion of solid, liquid and gaseous fuels, pollutant emission and reactor design and scale up. Part three highlights recent advances in a variety of FB combustion and gasification technologies before part four moves on to focus on emerging CO₂ capture technologies. Finally, part five explores other applications of FB technology including (FB) petroleum refining and chemical production. Fluidized bed technologies for near-zero emission combustion and gasification is a technical resource for power plant operators, industrial engineers working with fluidized bed combustion and gasification systems and researchers, scientists and academics in the field. Examines the fundamentals of fluidized bed (FB) technologies, including the conversion of

solid, liquid and gaseous fuels Explores recent advances in a variety of technologies such as pressurized FB combustion, and the measurement, monitoring and control of FB combustion and gasification Discusses emerging technologies and examines applications of FB in other processes In *The Fungal Pharmacy*, noted herbalist Robert Rogers introduces readers to more than 300 species of medicinal mushrooms and lichens found in North America. These fungi, Rogers explains, have the capacity to heal both the body and, through the process of myco-remediation, the planet itself. Throughout the book, he documents their success in optimizing the immune system and treating a wide range of acute and chronic diseases, including cardiovascular, respiratory, and liver problems, blood sugar disorders, cancer, and obesity. Entries discuss the mushroom or lichen's medicinal traits and properties, including active chemical components, preparation methods (including extracts, essences, and essential oils), and historical as well as modern-day usage. Two hundred full-color photos and thorough descriptions make identification easy for the reader. Rogers also delves into the cultural, religious, and literary significance of each mushroom, featuring fascinating tidbits about each one's etymology and history. The *Multiphase Flow Handbook, Second Edition* is a thoroughly updated and reorganized revision of the late Clayton Crowe's work, and provides a detailed look at the basic concepts and the wide range of applications in this important area of thermal/fluids engineering. Revised by the new editors, Efstathios E. (Stathis) Michaelides and John D. Schwarzkopf, the new Second Edition begins with two chapters covering fundamental concepts and methods that pertain to all the types and applications of multiphase flow. The remaining chapters cover the applications and engineering systems that are relevant to all the types of multiphase flow and heat transfer. The twenty-one chapters and several sections of the book include the basic science as well as the contemporary engineering and technological applications of multiphase flow in a comprehensive way that is easy to follow and be understood. The editors created a common set of nomenclature that is used throughout the book, allowing readers to easily compare fundamental theory with currently developing concepts and applications. With contributed chapters from sixty-two leading experts around the world, the *Multiphase Flow Handbook, Second Edition* is an essential reference for all researchers, academics and engineers working with complex thermal and fluid systems.

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