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Manufacturing Processes Manufacturing Engineering and Technology Manufacturing Processes for Engineering Materials Tribology in Metalworking Manufacturing Engineering and Technology Manufacturing Handbook Of Manufacturing Handbook of Metal Forming Laser Fabrication and Machining of Materials Lean Thinking Manufacturing Science Condition Monitoring and Control for Intelligent Manufacturing Introduction to Manufacturing Processes Microelectronics

Manufacturing Diagnostics Handbook Modeling and Optimization in Manufacturing Handbook of Materials Characterization Practical Welding Technology Advanced Modeling and Optimization of Manufacturing Processes Manufacturing Processes for Engineering Materials Engineering Ceramics Product Lifecycle Management Wire Technology Micro Metal Forming Materials and Process Selection for Engineering Design Materials and Design Design for Manufacturing Introduction to Semiconductor Manufacturing Technology (International Edition) Project Management for Engineering, Business and Technology Surface Integrity in Machining CIRP Encyclopedia of Production Engineering Introduction to Materials Science for Engineers Extrusion in Ceramics Technology Advanced Machining Processes Groover's Principles of Modern Manufacturing Basic Manufacturing Processes Standard Handbook for Mechanical Engineers Managing Engineering and Technology Introduction to Microelectronic Fabrication Mechanical Metallurgy *Serope Kalpakjian Serope Kalpakjian Serope Kalpakjian John A. Schey Serope Kalpakjian Beno Benhabib Yong Huang Kurt Lange Narendra B. Dahotre James P. Womack Ghosh Lihui Wang Mikell P. Groover Abraham Landzberg Catalin I. Pruncu Surender Kumar Sharma Rudy Mohler R. Venkata Rao Serope Kalpakjian M. Bengisu Razvan Udriou Roger N. Wright Frank Vollertsen Mahmoud M. Farag Michael F. Ashby Corrado Poli Hong Xiao John M. Nicholas J. Paulo Davim The International Academy for Produ James F. Shackelford Frank Händle John B. Gradwell Angelos P Markopoulos Mikell P. Groover R. C. S. Mehta Lucy C. Morse Richard C. Jaeger George Ellwood Dieter*

manufacturing engineering and technology si edition 7e presents a mostly qualitative description of the science technology and practice of manufacturing this includes detailed descriptions of manufacturing processes and the manufacturing enterprise that will help introduce students to important concepts with a total of 120 examples and case studies up to date and comprehensive coverage of all topics and superior two color graphics this text provides a solid background for manufacturing students and serves as a valuable reference text for professionals teaching and learning experienceto provide a better teaching and learning experience for both instructors and students this program will apply theory and or research an excellent overview of manufacturing concepts with a balance of relevant fundamentals and real world practices engage students examples and industrially relevant case studies demonstrate the importance of the subject offer a real world perspective and keep students interested support instructors and students a companion website includes step by step video solutions the pearson etext and color versions of all figure and tables in the book

from concept development to final production this comprehensive text thoroughly examines the design prototyping and fabrication of engineering products and emphasizes modern developments in system modeling analysis and automatic control

this reference details various management strategies design methodologies traditional production techniques

handbook of manufacturing provides a comprehensive overview of fundamental knowledge on manufacturing covering various processes manufacturing related metrology and quality assessment and control and manufacturing systems many modern processes such as additive manufacturing micro and nano manufacturing and biomedical manufacturing are also covered in this handbook the handbook will help prepare readers for future exploration of manufacturing research as well as practical engineering applications

focuses on practical solutions covering production methods tools machine tools and other equipment as well as precision tool manufacturing methods and production systems this comprehensive reference also includes all the relevant aspects of the following metallurgy tribology theory of plasticity material properties and process data determination

this book covers the fundamental principles and physical phenomena behind laser based fabrication and machining processes it also gives an overview of their existing and potential applications with laser machining an emerging area in various applications ranging from bulk machining in metal forming to micromachining and microstructuring this book provides a link between advanced materials and advanced manufacturing techniques the interdisciplinary approach of this text will help prepare students and researchers for the next generation of manufacturing

lean thinking was launched in the fall of 1996 just in time for the recession of 1997 it told the story of how american european and japanese firms applied a simple set of principles called lean thinking to survive the recession of 1991 and grow steadily in sales and profits through 1996 even though the recession of 1997 never happened companies were starving for information on how to make themselves leaner and more efficient now we are dealing with the recession of 2001 and the financial meltdown of 2002 so what happened to the exemplar firms profiled in lean thinking in the new fully revised edition of this bestselling book those pioneering lean thinkers are brought up to date authors james womack and daniel jones offer new guidelines for lean thinking firms and bring their groundbreaking practices to a brand new generation of companies that are looking to stay one step ahead of the competition

manufacturing systems and processes are becoming more complex so more rational decision making in process control is a necessity better information gathering and analysis techniques are needed and condition monitoring is seen as a framework that will enable these improvements condition monitoring and control for intelligent manufacturing brings together the world's authorities on condition monitoring to

provide a broad treatment of the subject accessible to researchers and practitioners in manufacturing industry the book presents a review of the key areas of research in machine condition monitoring and control before focusing on an in depth treatment of each important technique from multi domain signal processing for defect diagnosis to web based information delivery for real time control researchers in manufacturing and control engineering as well as practising engineers in industries from automotive to packaging manufacturing will find this book valuable

mikell groover author of the leading text in manufacturing processes has developed introduction to manufacturing processes as a more navigable and student friendly text paired with a strong suite of additional tools and resources online to help instructors drive positive student outcomes focusing mainly on processes tailoring down the typical coverage of both materials and systems the emphasis on manufacturing science and mathematical modeling of processes is an important attribute of the new book real world design case studies are also integrated with fundamentals process videos provide students with a chance to experience being on the floor in a manufacturing facility followed by case studies that provide individual students or groups of students to dig into larger more design oriented problems

the world of microelectronics is filled with cusses measurement systems manufacturing many success stories from the use of semi control techniques test diagnostics and fail ure analysis it discusses methods for modeling conductors for powerful desktop computers to their use in maintaining optimum engine per and reducing defects and for preventing de formance in modem automobiles they have facts in the first place the approach described clearly improved our daily lives the broad while geared to the microelectronics world has useability of the technology is enabled how applicability to any manufacturing process of similar complexity the authors comprise some ever only by the progress made in reducing their cost and improving their reliability de of the best scientific minds in the world and fect reduction receives a significant focus in our are practitioners of the art the information modem manufacturing world and high quality captured here is world class i know you will diagnostics is the key step in that process find the material to be an excellent reference in of product failures enables step func analysis your application tion improvements in yield and reliability which works to reduce cost and open up new dr paul r low applications and technologies ibm vice president and this book describes the process of defect re of technology products general manager duction in the microelectronics world

discover the state of the art in multiscale modeling and optimization in manufacturing from two leading voices in the field modeling and optimization in manufacturing delivers a comprehensive approach to various manufacturing processes and shows readers how multiscale modeling and optimization processes help improve upon them

the book elaborates on the foundations and applications of computational modeling and optimization processes as well as recent developments in the field it offers discussions of manufacturing processes including forming machining casting joining coating and additive manufacturing and how computer simulations have influenced their development examples for each category of manufacturing are provided in the text and industrial applications are described for the reader the distinguished authors also provide an insightful perspective on likely future trends and developments in manufacturing modeling and optimization including the use of large materials databases and machine learning readers will also benefit from the inclusion of a thorough introduction to the origins of manufacturing the history of traditional and advanced manufacturing and recent progress in manufacturing an exploration of advanced manufacturing and the environmental impact and significance of manufacturing practical discussions of the economic importance of advanced manufacturing an examination of the sustainability of advanced manufacturing and developing and future trends in manufacturing perfect for materials scientists mechanical engineers and process engineers modeling and optimization in manufacturing will also earn a place in the libraries of engineering scientists in industries seeking a one stop reference on multiscale modeling and optimization in manufacturing

this book focuses on the widely used experimental techniques available for the structural morphological and spectroscopic characterization of materials recent developments in a wide range of experimental techniques and their application to the quantification of materials properties are an essential side of this book moreover it provides concise but thorough coverage of the practical and theoretical aspects of the analytical techniques used to characterize a wide variety of functional nanomaterials the book provides an overview of widely used characterization techniques for a broad audience from beginners and graduate students to advanced specialists in both academia and industry

drawing from his 35 years experience as an instructor and technical writer in the field the author provides instructors students and professionals with a wealth of welding technology in a readable and comprehensive handbook features describes in detail the technology and manipulative procedures for making successful welds in all welding positions types of joints and metals offers hundreds of hints on how to solve every on the job welding problem

advanced modeling and optimization of manufacturing processes presents a comprehensive review of the latest international research and development trends in the modeling and optimization of manufacturing processes with a focus on machining it uses examples of various manufacturing processes to demonstrate advanced modeling and optimization techniques both basic and advanced concepts are

presented for various manufacturing processes mathematical models traditional and non traditional optimization techniques and real case studies the results of the application of the proposed methods are also covered and the book highlights the most useful modeling and optimization strategies for achieving best process performance in addition to covering the advanced modeling optimization and environmental aspects of machining processes advanced modeling and optimization of manufacturing processes also covers the latest technological advances including rapid prototyping and tooling micromachining and nano finishing advanced modeling and optimization of manufacturing processes is written for designers and manufacturing engineers who are responsible for the technical aspects of product realization as it presents new models and optimization techniques to make their work easier more efficient and more effective it is also a useful text for practitioners researchers and advanced students in mechanical industrial and manufacturing engineering

this comprehensive up to date text has balance coverage of the fundamentals of materials and processes its analytical approaches and its applications in manufacturing engineering

a handy reference for technicians who want to understand the nature properties and applications of engineering ceramics the book meets the needs of those working in the ceramics industry as well as of technicians and engineers involved in the application of ceramic materials

the aim of this book is to present the terminology applications trends and developments in product lifecycle management plm this book has a total of seven chapters that treat the fundamental and future terminology used in plm aspects regarding the design customization and development of products products testing supply chain optimization and recycling of the products made of special materials

wire technology process engineering and metallurgy second edition covers new developments in high speed equipment and the drawing of ultra high strength steels along with new computer based design and analysis software and techniques including finite element analysis in addition the author shares his design and risk prediction calculations as well as several new case studies new and extended sections cover measurement and instrumentation die temperature and cooling multiwire drawing and high strength steel wire coverage of process economics has been greatly enhanced including an exploration of product yields and cost analysis as has the coverage of sustainability aspects such as energy use and recycling as with the first edition questions and problems are included at the end of each chapter to reinforce key concepts written by an internationally recognized specialist in wire drawing with extensive academic and industry experience provides real world examples problems

and case studies that allow engineers to easily apply the theory to their workplace thus improving productivity and process efficiency covers both ferrous and non ferrous metals in one volume

micro metal forming i e forming of parts and features with dimensions below 1 mm is a young area of research in the wide field of metal forming technologies expanding the limits for applying metal forming towards micro technology the essential challenges arise from the reduced geometrical size and the increased lot size in order to enable potential users to apply micro metal forming in production information about the following topics are given tribological behavior friction between tool and work piece as well as tool wear mechanical behavior strength and formability of the work piece material durability of the work pieces size effects basic description of effects occurring due to the fact that the quantitative relation between different features changes with decreasing size process windows and limits for forming processes tool making methods numerical modeling of processes and process chains quality assurance and metrology all topics are discussed with respect to the questions relevant to micro metal forming the description comprises information from actual research and the young history of this technology branch to be used by students scientists and engineers in industry who already have a background in metal forming and like to expand their knowledge towards miniaturization tribological behavior friction between tool and work piece as well as tool wear mechanical behavior strength and formability of the work piece material durability of the work pieces size effects basic description of effects occurring due to the fact that the quantitative relation between different features changes with decreasing size process windows and limits for forming processes tool making methods numerical modeling of processes and process chains quality assurance and metrology all topics are discussed with respect to the questions relevant to micro metal forming the description comprises information from actual research and the young history of this technology branch to be used by students scientists and engineers in industry who already have a background in metal forming and like to expand their knowledge towards miniaturization

introducing a new engineering product or changing an existing model involves developing designs reaching economic decisions selecting materials choosing manufacturing processes and assessing environmental impact these activities are interdependent and should not be performed in isolation from each other this is because the materials and processes used in making a product can have a major influence on its design cost and performance in service this fourth edition of the best selling materials and process selection for engineering design takes all of this into account and has been comprehensively revised to reflect the many advances in the fields of materials and manufacturing including increasing use of additive manufacturing technology especially in biomedical aerospace and automotive

applications emphasizing the environmental impact of engineering products recycling and increasing use of biodegradable polymers and composites analyzing further into weight reduction of products through design changes as well as material and process selection especially in manufacturing products such as electric cars discussing new methods for solving multi criteria decision making problems including multi component material selection as well as concurrent and geometry dependent selection of materials and joining technology increasing use of matlab by engineering students in solving problems this textbook features the following pedagogical tools new and updated practical case studies from industry a variety of suggested topics and background information for in class group work ideas and background information for reflection papers so readers can think critically about the material they have read give their interpretation of the issues under discussion and the lessons learned and then propose a way forward open book exercises and questions at the end of each chapter where readers are evaluated on how they use the material rather than how well they recall it in addition to the traditional review questions includes a solutions manual and powerpoint lecture materials for adopting professors aimed at students in mechanical manufacturing and materials engineering as well as professionals in these fields this book provides the practical know how in order to choose the right materials and processes for development of new or enhanced products

materials and design the art and science of material selection in product design second edition discusses the role of materials and processes in product design the book focuses on the materials that designers need as well as on how and why they use them the book s 10 chapters cover topics such as function and personality factors influencing product design the design process materials selection and case studies in materials and design appendices for each chapter provide exercises for readers along with detailed charts of technical attributes of different materials for reference this book will be particularly useful to both students and working designers students are introduced to the role of materials in manufacturing and design with the help of familiar language and concepts working designers can use the book as a reference source for materials and manufacturing the best guide ever published on the on the role of materials past and present in product development by noted materials authority mike ashby and professional designer kara johnson now with even better photos and drawings on the design process significant new section on the use of recycled materials in products and the importance of sustainable design for manufactured goods and services enhanced materials profiles with addition of new materials types like nanomaterials advanced plastics and bio based materials

design for manufacturing assists anyone not familiar with various manufacturing processes in better visualizing and understanding the relationship between part design and the ease or difficulty of producing the part decisions made during the

early conceptual stages of design have a great effect on subsequent stages in fact quite often more than 70 of the manufacturing cost of a product is determined at this conceptual stage yet manufacturing is not involved through this book designers will gain insight that will allow them to assess the impact of their proposed design on manufacturing difficulty the vast majority of components found in commercial batch manufactured products such as appliances computers and office automation equipment are either injection molded stamped die cast or occasionally forged this book emphasizes these particular most commonly implemented processes in addition to chapters on these processes the book touches upon material process selection general guidelines for determining whether several components should be combined into a single component or not communications the physical and mechanical properties of materials tolerances and inspection and quality control in developing the dfm methods presented in this book he has worked with over 30 firms specializing in injection molding die casting forging and stamping implements a philosophy which allows for easier and more economic production of designs educates designers about manufacturing emphasizes the four major manufacturing processes

project management for engineering business and technology is a highly regarded textbook that addresses project management across all industries first covering the essential background from origins and philosophy to methodology the bulk of the book is dedicated to concepts and techniques for practical application coverage includes project initiation and proposals scope and task definition scheduling budgeting risk analysis control project selection and portfolio management program management project organization and all important people aspects project leadership team building conflict resolution and stress management the systems development cycle is used as a framework to discuss project management in a variety of situations making this the go to book for managing virtually any kind of project program or task force the authors focus on the ultimate purpose of project management to unify and integrate the interests resources and work efforts of many stakeholders as well as the planning scheduling and budgeting needed to accomplish overall project goals this sixth edition features updates throughout to cover the latest developments in project management methodologies a new chapter on project procurement management and contracts an expansion of case study coverage throughout including those on the topic of sustainability and climate change as well as cases and examples from across the globe including india africa asia and australia and extensive instructor support materials including an instructor s manual powerpoint slides answers to chapter review questions and a test bank of questions taking a technical yet accessible approach this book is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses as well as for practicing project managers across all industry sectors

surface integrity in machining describes the fundamentals and recent advances in the

study of surface integrity in machining processes surface integrity in machining gathers together research from international experts in the field topics covered include the definition of surface integrity and its importance in functional performance surface topography characterization and evaluation microstructure modification and the mechanical properties of subsurface layers residual stresses surface integrity characterization methods and surface integrity aspects in machining processes a useful reference for researchers in tribology and materials mechanical and materials engineers and machining professionals surface integrity in machining can be also used as a textbook by advanced undergraduate and postgraduate students

the cirp encyclopedia covers the state of art of advanced technologies methods and models for production production engineering and logistics while the technological and operational aspects are in the focus economical aspects are addressed too the entries for a wide variety of terms were reviewed by the cirp community representing the highest standards in research thus the content is not only evaluated internationally on a high scientific level but also reflects very recent developments

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frank handle 1 1 what to expect for some time now i have been toying around with the idea of writing a book about ceramic extrusion because to my amazement i have been unable to locate a single existing comprehensive rundown on the subject much in contrast to say plastic extrusion and despite the fact that there are some outstanding contributions to be found about certain individual topics such as those in textbooks by reed 1 krause 2 bender handle 3 et al by way of analogy to woody allen s wonderfully ironic movie entitled eve thing you always wanted to know about sex i originally intended to call this book everything you always wanted to know about ceramic extrusion but ter giving it some extra thought i eventually decided on a somewhat soberer title nevertheless my companion writers and i have done our best considering our target group and their motives not to revert to the kind of jargon that people use when they think the less understandable it sounds the more scienti c it appears this book addresses all those who are looking for a lot or a little general or selective information about ceramic extrusion and its sundry aspects we realize that most of our readers will not be perusing this book just for fun or out of intellectual curiosity but because they hope to get some use out of it for their own endeavours

contains a set of design and make activities and a range of support tasks to provide the knowledge skills and understanding students require to become technologically literate the teacher s manual correlates the activities to textbook chapters

modeling and machining are two terms closely related the benefits of the application of modeling on machining are well known the advances in technology call for the use of more sophisticated machining methods for the production of high end components in turn more complex more suitable and reliable modeling methods are required this book pertains to machining and modeling but focuses on the special aspects of both many researchers in academia and industry who are looking for ways to refine their work make it more detailed increase their accuracy and reliability or implement new features will gain access to knowledge in this book that is very scarce to find elsewhere

strong style font family arial font size 13 3333px groover s principles of modern manufacturing is designed for a first course or two course sequence in manufacturing at the junior level in mechanical industrial and manufacturing engineering curricula as in preceding editions the author s objective is to provide a treatment of manufacturing that is modern and quantitative the book s modern approach is based on balanced coverage of the basic engineering materials the inclusion of recently developed manufacturing processes and comprehensive coverage of electronics manufacturing technologies the quantitative focus of the text is displayed in its emphasis on manufacturing science and its greater use of mathematical models and quantitative end of chapter problems

covers the theoretical and practical aspects of basic manufacturing processes in a simple and concise manner the theory of basic manufacturing processes and their underlying principles are dealt with in a brief but easy to understand way the common tools and equipment used in various shops of a general purpose workshop are also been discussed

managing engineering and technology is ideal for courses in technology management engineering management or introduction to engineering technology this text is also ideal forengineers scientists and other technologists interested in enhancing their management skills managing engineering and technology is designed to teach engineers scientists and other technologists the basic management skills they will need to be effective throughout their careers

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The Two Sides of the Coin: Exploring the Pros and Cons of Non-Renewable Energy

Non-renewable energy sources are those that are finite and cannot be replenished within a human timescale. These resources, primarily fossil fuels (coal, oil, and natural gas) and nuclear energy, have powered much of the world's industrialization and continue to play a significant role in global energy production. However, their use comes with significant environmental and social consequences. This article will delve into the advantages and disadvantages of non-renewable energy, providing a balanced perspective for understanding their complex role in our world.

I. Pros of Non-Renewable Energy:

A. Abundant and Relatively Cheap (Currently): Historically, non-renewable energy sources have been readily available and relatively inexpensive to extract and process compared to renewable alternatives. This has made them the dominant energy source for centuries, fueling economic growth and industrial development. For example, the vast coal reserves in countries like China have powered their remarkable economic expansion. However, this low cost doesn't account for externalities like environmental damage, which are increasingly being factored into the true cost.

B. High Energy Density and Reliability: Non-renewable energy sources possess high energy density, meaning they deliver a large amount of energy per unit of volume or mass. This is crucial for applications requiring consistent and powerful energy output, such as electricity generation for large cities or powering heavy machinery. Furthermore, unlike solar or wind power, they are generally reliable and can operate continuously regardless of weather conditions. A coal power plant, for example, can generate electricity consistently for extended periods, unlike a solar farm which is dependent on sunlight.

C. Established Infrastructure and Technology: Decades of development have established a mature and extensive infrastructure surrounding non-renewable energy extraction, processing, and distribution. This includes pipelines for transporting oil and gas, vast networks of power grids, and well-established technologies for energy conversion. Switching to entirely renewable energy sources requires substantial investment in new infrastructure and technologies, presenting a significant challenge.

D. Ease of Transportation and Storage: Fossil fuels can be transported relatively easily via pipelines, tankers, and trucks, making them accessible to various locations. Furthermore, they can be stored efficiently for future

use, offering energy security and buffering against periods of fluctuating demand or supply disruptions. This is a major advantage over renewable sources like solar and wind, which require large-scale storage solutions to address their intermittency.

II. Cons of Non-Renewable Energy:

A. Environmental Pollution and Climate Change: The burning of fossil fuels releases greenhouse gases (GHGs), primarily carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O), into the atmosphere. These gases contribute significantly to global warming and climate change, causing rising sea levels, extreme weather events, and disruptions to ecosystems. The extraction of these fuels also leads to habitat destruction, water pollution, and air pollution, causing significant health problems. For instance, coal mining can lead to acid rain and respiratory illnesses.

B. Resource Depletion and Finite Supply: Non-renewable resources are, by definition, finite. The world's reserves of oil, coal, and natural gas are steadily declining, and their eventual depletion presents a significant challenge for future energy security. This depletion is already driving up prices and creating geopolitical instability.

C. Health Risks and Safety Concerns: The extraction, processing, and use of non-renewable energy sources pose significant health risks. Air pollution from power plants causes respiratory diseases, while oil spills can devastate marine ecosystems and harm human health. Nuclear power, although producing little GHGs, carries risks of accidents like Chernobyl and Fukushima, along with the long-term challenge of nuclear waste disposal.

D. Geopolitical Instability: The unequal distribution of non-renewable resources across the globe can lead to geopolitical tensions and conflicts. Countries with significant reserves often wield considerable influence over global energy markets, potentially leading to economic manipulation and political instability. The dependence on foreign oil, for example, can create vulnerabilities for importing nations.

III. Summary:

Non-renewable energy sources have played a crucial role in the development of modern society, offering readily available and relatively cheap energy with high reliability. However, their environmental impact, particularly concerning climate change, resource depletion, and health risks, is undeniable. The finite nature of these resources and the growing awareness of their negative consequences necessitate a transition towards sustainable and renewable energy sources. While a complete shift away from non-renewables presents significant challenges, it remains crucial for long-term environmental and economic stability.

IV. FAQs:

1. What is the biggest environmental problem caused by non-renewable energy? The biggest environmental problem is undoubtedly climate change driven by the release of greenhouse gases during the combustion of fossil fuels. 2. Are all non-renewable energy sources equally harmful? No. Nuclear energy produces minimal greenhouse gases during operation but presents significant risks related to waste disposal and accidents. Fossil fuels generate substantial greenhouse gas emissions and cause significant air and water pollution. 3. When will non-renewable resources run out? This is difficult to predict precisely, as it depends on factors like consumption rates, technological advancements, and the discovery of new reserves. However, it is clear that their supply is finite and will eventually dwindle. 4. What are the alternatives to non-renewable energy? Renewable energy sources like solar, wind, hydro, geothermal, and biomass offer viable alternatives, though challenges remain in terms of cost, reliability, and storage. 5. What role will non-renewable energy play in the future? While the transition to renewable energy is essential, non-renewable sources will likely continue to play a role, albeit a diminishing one, in the near future, especially as a backup power source during periods of low renewable generation. The focus will shift towards more efficient use and gradual phasing out.

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