



Anisotropic surface



3D microstructure



Electrospinning



Lithography



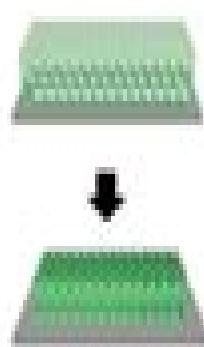
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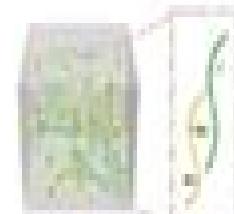
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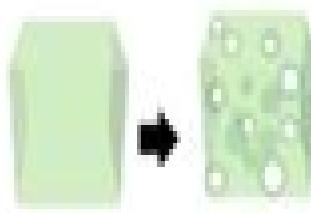
3D printing



Sacrificial templates



Self-assembly



Freeze-drying



Decellularized matrix

Structural Biomaterials

**Buddy D. Ratner, Allan S.
Hoffman, Frederick J. Schoen, Jack E.
Lemons**

Structural Biomaterials:

Structural Biomaterials J.F.V. Vincent, 1982-02-01 *Structural Biomaterials* Cuie Wen, 2021-04-06 Structural Biomaterials Properties Characteristics and Selection serves as a single point of reference to digest current research and develop a deeper understanding in the field of biomaterials engineering. This book uses a materials focused approach allowing the reader to quickly access specific detailed information on biomaterials characterization and selection. Relevant to a range of readers this book provides holistic coverage of the broad categories of structural biomaterials currently available and used in medical applications highlighting the property requirements for structural biomaterials their biocompatibility performance and their safety regulation in key categories such as metals ceramics and polymers. The materials science perspective of this text ensures the content is accessible even to those without an extensive background in applied medicine positioning this text not just for students but as an overview and reference for researchers scientists and engineers entering the field from related materials science disciplines. Provides a unique holistic approach covering key biomaterials categories in one text including metals ceramics and polymers. Discusses advantages disadvantages biocompatibility performance and safety regulations allowing for accurate materials selection in medical applications. Utilizes a materials science perspective allowing those without an extensive applied medical background to learn about the field **Structural Biomaterials** Julian F. V. Vincent, 1990-08. This book should go a long way towards filling the communication gap between biology and physics in the area of biomaterials. It begins with the basic theory of elasticity and viscoelasticity describing concepts like stress strain compliance and plasticity in simple mathematical terms. For the non biologist these chapters provide a clear account of macromolecular structure and conformation. Vincent's work is a delight to read full of interesting anecdotes and examples from unexpected sources. I can strongly recommend this book as it shows how biologists could use mechanical properties as well as conventional methods to deduce molecular structure. Anna Furth The Times Higher Education Supplement. In what is now recognized as a standard introduction to biomaterials Julian Vincent presents a biologist's analysis of the structural materials of organisms using molecular biology as a starting point. He explores the chemical structure of both proteins and polysaccharides illustrating how their composition and bonding determine the mechanical properties of the materials in which they occur including pliant composites such as skin artery and plant tissue stiff composites such as insect cuticle and wood and biological ceramics such as teeth bone and eggshell. Here Vincent discusses the possibilities of taking ideas from nature with biomimicry and intelligent or self designing and sensitive materials **Structural Biomaterials** Julian Vincent, 2012-07-29. Introduction to the structural materials in natural organisms and what we can learn from them to improve man made technology from nanotechnology to textiles to architecture. Emphasizes the mechanical properties of structural biomaterials their contribution to the lives of organisms and how these materials differ from man made ones.

Structural Biomaterials Julian Vincent, 1905. Structural Biomaterials Third Edition Julian Vincent. This is a thoroughly

revised updated and expanded edition of a classic illustrated introduction to the structural materials in natural organisms and what we can learn from them to improve man made technology from nanotechnology to textiles to architecture Julian Vincent's book has long been recognized as a standard work on the engineering design of biomaterials and is used by undergraduates graduates researchers and professionals studying biology zoology engineering and biologically inspired design This third edition incorporates Advances in Manufacturing and Processing of Materials and Structures Yoseph Bar-Cohen, 2018-09-03 Advances in Manufacturing and Processing of Materials and Structures cover the latest advances in materials and structures in manufacturing and processing including additive and subtractive processes. It's intended to provide a compiled resource that reviews details of the advances that have been made in recent years in manufacturing and processing of materials and structures. A key development incorporated within this book is 3D printing which is being used to produce complex parts including composites with odd shape fibers as well as tissue and body organs. This book has been tailored for engineers scientists and practitioners in different fields such as aerospace mechanical engineering materials science and biomedicine. Biomimetic principles have also been integrated. Features Provides the latest state of the art on different manufacturing processes including a biomimetics viewpoint Offers broad coverage of advances in materials and manufacturing Written by chapter authors who are world class researchers in their respective fields Provides in depth presentation of the latest 3D and 4D technologies related to various manufacturing disciplines Provides substantial references in each chapter to enhance further study Biomaterials Science Buddy D. Ratner, Allan S. Hoffman, Frederick J. Schoen, Jack E. Lemons, 2004-08-18 The second edition of this bestselling title provides the most up to date comprehensive review of all aspects of biomaterials science by providing a balanced insightful approach to learning biomaterials. This reference integrates a historical perspective of materials engineering principles with biological interactions of biomaterials. Also provided within are regulatory and ethical issues in addition to future directions of the field and a state of the art update of medical and biotechnological applications. All aspects of biomaterials science are thoroughly addressed from tissue engineering to cochlear prostheses and drug delivery systems. Over 80 contributors from academia government and industry detail the principles of cell biology immunology and pathology. Focus within pertains to the clinical uses of biomaterials as components in implants devices and artificial organs. This reference also touches upon their uses in biotechnology as well as the characterization of the physical chemical biochemical and surface properties of these materials. Provides comprehensive coverage of principles and applications of all classes of biomaterials. Integrates concepts of biomaterials science and biological interactions with clinical science and societal issues including law regulation and ethics. Discusses successes and failures of biomaterials applications in clinical medicine and the future directions of the field. Cover the broad spectrum of biomaterial compositions including polymers metals ceramics glasses carbons natural materials and composites. Endorsed by the Society for Biomaterials Learning from Nature How to Design New Implantable Biomaterials: From Biomimeticization

Fundamentals to Biomimetic Materials and Processing Routes Rui L. Reis, S. Weiner, 2005-12-29 The development of materials for any replacement or regeneration application should be based on the thorough understanding of the structure to be substituted. This is true in many fields but particularly exigent in substitution and regeneration medicine. The demands upon the material properties largely depend on the site of application and the function it has to restore. Ideally a replacement material should mimic the living tissue from a mechanical, chemical, biological and functional point of view. Of course this is much easier to write down than to implement in clinical practice. Mineralized tissues such as bones, teeth and shells have attracted in the last few years considerable interest as natural anisotropic composite structures with adequate mechanical properties. In fact, Nature is and will continue to be the best materials scientist ever. Who better than nature can design complex structures and control the intricate phenomena processing routes that lead to the final shape and structure from the macro to the nano level of living creatures? Who can combine biological and physico-chemical mechanisms in such a way that can build ideal structure properties relationships? Who else than Nature can really design smart structural components that respond *in situ* to exterior stimulus being able of adapting constantly their microstructure and correspondent properties? In the described philosophy line mineralized tissues and biomimetic processes are ideal examples to learn from for the materials scientist of the future.

Metals for Biomedical Devices Mitsuo Niinomi, 2019-05-17 Metals for Biomedical Devices, Second Edition has been fully updated and builds upon the success of its first edition discussing the latest techniques in metal processing methods and the behavior of this important material. Initial chapters review the current status and selection of metals for biomedical devices. Subsequent chapters cover mechanical behavior, degradation and testing, corrosion, wear testing and biocompatibility, the processing of metals for biomedical applications including topics such as forging, metals and alloys, surface treatment, coatings and sterilization. Chapters in the final section discuss the clinical applications of metals such as cardiovascular, orthopedic and new generation biomaterials. With its distinguished editor and team of expert contributors, this book is a standard reference for materials scientists, researchers and engineers working in the medical devices industry and academia. Reviews the latest techniques in metal processing methods including surface treatment and sterilization. Examines metal selection for biomedical devices considering the biocompatibility of various metals. Assesses mechanical behavior and the testing of metals featuring the latest information on corrosion, fatigue and wear. Discusses biodegradable alloys including a new section on Mg alloys. Includes a new section that discusses the use of additive manufacturing in the production of medical devices.

Biological Performance of Materials Jonathan Black, 2005-12-20 Bioengineers need a thorough grounding in biocompatibility, the biological performance of materials. Until now there were no publications suitable for a neophyte in the field; prior publications were either not comprehensive or focused on rather narrow interests. Drawing on the author's 35 years of experience as a teacher, researcher and consultant, **The Physics of Living Processes** Thomas Andrew Waigh, 2014-10-20 This full colour undergraduate textbook based on a two semester

course presents the fundamentals of biological physics introducing essential modern topics that include cells polymers polyelectrolytes membranes liquid crystals phase transitions self assembly photonics fluid mechanics motility chemical kinetics enzyme kinetics systems biology nerves physiology the senses and the brain The comprehensive coverage featuring in depth explanations of recent rapid developments demonstrates this to be one of the most diverse of modern scientific disciplines The Physics of Living Processes A Mesoscopic Approach is comprised of five principal sections Building Blocks Soft Condensed Matter Techniques in Biology Experimental Techniques Systems Biology Spikes Brains and the Senses The unique focus is predominantly on the mesoscale structures on length scales between those of atoms and the macroscopic behaviour of whole organisms The connections between molecules and their emergent biological phenomena provide a novel integrated perspective on biological physics making this an important text across a variety of scientific disciplines including biophysics physics physical chemistry chemical engineering and bioengineering An extensive set of worked tutorial questions are included which will equip the reader with a range of new physical tools to approach problems in the life sciences from medicine pharmaceutical science and agriculture

Hybrid Materials Guido Kickelbick,2007-02-27 Hybrid materials have currently a great impact on numerous future developments including nanotechnology This book presents an overview about the different types of materials clearly structured into synthesis characterization and applications A perfect starting point for everyone interested in the field but also for the specialist as a source of high quality information

Composites from the Aquatic Environment Sapuan S. M.,Imran Ahmad,2023-01-13 This book provides a methodical compilation of deriving composites from the hidden treasure of the aquatic world Continuous and rapid progress in the composite industries have increased the demand for resilient economically viable and sustainable composite materials having enhanced mechanical thermal and electrical properties which better suits there respective applications If the materials organisms used for the production or conversion of composites are renewable degradable and easily and abundantly available then it gives great opportunity to the researchers to work on different options or processes to make them a viable technology This work describes the organisms and materials present in the aquatic environment for the production of composite materials Elaborating the versatile green expedients and their potential applications in the field of composites Since growing ecological and environmental consciousness has driven efforts for development of new innovative materials for various end use applications Therefore the LCA an circular bio economy will be discussed to be efficient and sustainable This book is ideal for the students academicians researchers and industry players It also cover the present scenario applications and future perspectives of composites derived from aquatic organisms This compiled book features chapters that discuss the conversion of different materials and organisms present in aquatic environment to composite materials like micro algae seaweeds chitosan collagen agar cyanobacteria etc in a viable manner

Additive Manufacturing and Green Building Materials Domingo Morales-Palma,Andrés J. Martínez-Donaire,Marcos Borrego Puche,Gabriel Centeno Báez,Carpoforo

Vallelano, Vladimir Khovalo, Nguyen Quang Liem, 2023-09-29 Special topic volume with invited peer reviewed papers only

Structural Biological Materials M. Elices, 2000-05-08 The ongoing process of bio evolution has produced materials which are perfectly adapted to fulfil a specific functional role. The natural world provides us with a multitude of examples of materials with durability strength mechanisms of programmed self assembly and biodegradability. The materials industry has sought to observe and appreciate the relationship between structure properties and function of these biological materials. A multidisciplinary approach building on recent advances at the forefront of physics chemistry and molecular biology has been successful in producing many synthetic structures with interesting and useful properties. **Structural Biological Materials Design and Structure Property Relationships** represents an invaluable reference in the field of biological materials science and provides an incisive view into this rapidly developing and increasingly important topic within materials science. This book focuses on the study of three sub groups of structural biological materials. Hard tissue engineering focussing on cortical bone. Soft tissue engineering. Fibrous materials particularly engineering with silk fibers. The fundamental relationship between structure and properties and certain aspects of design and engineering are explored in each of the sub groups. The importance of these materials both in their intrinsic properties and specific functions are illustrated with relevant examples. These depict the successful integration of material properties architecture and shape providing a wide range of optimised designs tailored to specific functions. Edited by Manuel Elices of the Universidad Polit cnica de Madrid Spain this book is Volume 4 in the Pergamon Material Series. **Materials and Construction** Francis Campin, 1881. **Biomimetic biomaterials** R. Rabiei, A.K. Dastjerdi, M. Mirkhalaf, F. Barthelat, 2013-09-30 This chapter investigates the concept of hierarchy widely found in biological materials. First natural hierarchical materials are explored in terms of their high order structures formed from universal building blocks. Hierarchical arrangement is claimed to give rise to remarkable mechanical properties of biological structures. Therefore at the next step the significance of hierarchical structuring on mechanical properties is investigated through available analytical models. Finally fabrication methods which could potentially lead to artificial hierarchical structures are briefly reviewed in the domain of biomimetics. **Structures and Materials Report**, 1960

Cluster Assembled Materials Klaus Sattler, 1996-11-07 It is now some 15 years since atomic clusters were first produced and investigated in laboratories. Since then knowledge concerning clusters has enjoyed rapid and sustained growth and cluster research has become a new branch of science. **Materials in Design Engineering**, 1959

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Table of Contents Structural Biomaterials

1. Understanding the eBook Structural Biomaterials
 - The Rise of Digital Reading Structural Biomaterials
 - Advantages of eBooks Over Traditional Books
2. Identifying Structural Biomaterials
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Structural Biomaterials
 - User-Friendly Interface
4. Exploring eBook Recommendations from Structural Biomaterials
 - Personalized Recommendations
 - Structural Biomaterials User Reviews and Ratings
 - Structural Biomaterials and Bestseller Lists
5. Accessing Structural Biomaterials Free and Paid eBooks
 - Structural Biomaterials Public Domain eBooks
 - Structural Biomaterials eBook Subscription Services
 - Structural Biomaterials Budget-Friendly Options

6. Navigating Structural Biomaterials eBook Formats
 - ePUB, PDF, MOBI, and More
 - Structural Biomaterials Compatibility with Devices
 - Structural Biomaterials Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Structural Biomaterials
 - Highlighting and Note-Taking Structural Biomaterials
 - Interactive Elements Structural Biomaterials
8. Staying Engaged with Structural Biomaterials
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Structural Biomaterials
9. Balancing eBooks and Physical Books Structural Biomaterials
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Structural Biomaterials
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Structural Biomaterials
 - Setting Reading Goals Structural Biomaterials
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Structural Biomaterials
 - Fact-Checking eBook Content of Structural Biomaterials
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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web the dream can symbolize a successful marriage soon and stability in life a whining dog seen in a dream is a symbol of sorrow and tears besides that such a dream promises a long distance journey seeing how the dog walks and hearing how it whines indicates the impossibility of reaching your goal goal

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web sep 20 2023 desantis 2 gasoline dream should terrify texas it is the fate of any occupant of the white house to be blamed for pump prices that are to a large degree beyond their control which makes it

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web dreams about dogs dreams involving dogs usually have a positive connotation and reflect contentment protection loyalty and unconditional love dogs often symbolize faithfulness intelligence and attentiveness and the dreamer's own positive characteristics

youtube adds ai dream screen as new option for shorts - Feb 22 2021

web september 21 2023 9 11am youtube's dream screen courtesy youtube is amping up its efforts in generative artificial intelligence adding a dream screen and other ai tools for creators

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web jul 14 2023 if you dream of a dog chasing or threatening you lauri quinn loewenberg a dream analyst at whatyourdreammeans.com told paw culture it likely represents a situation in your life that makes you feel victimized angry or powerless

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web dream of a dog were you an adventurer who dreamt of being a dog or are you a dog who is dreaming of being an adventurer and in either case why is a dream about a dog in its corporeal form a martini type booze epic potency 2 level required 8 selling price 100 meat in game plural dreams of dogs

dream villagers in animal crossing new horizons thegamer - Apr 26 2021

web sep 18 2023 some notable villagers include roald the down to earth jock penguin and maple the sweet and maternal cub neighbor animal crossing new horizons was the game of 2020 when it came out combining coziness with the sims you play as a resident on an island you design and sculpt the open ended gameplay means you can take the

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web aug 17 2023 dog dreams aren't just random encounters they're significant symbols that require careful interpretation interpretation of dreams isn't a one size fits all scenario it's intuitive personal and deeply insightful analyzing these dog dreams might help shed light on aspects of your friendships or family dynamics that need attention

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web jun 24 2021 often dog dreams represent our primal urges for loyalty protection companionship and a feeling we belong to a pack whenever you dream of dogs large dogs or small dogs make sure to remember the surroundings in the dream in some other religions for example hindu dogs in dreams symbolize honesty faith and service and

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web usually white or brown dogs are positive dream symbols black dogs however are connected to the unconsciousness a black dog is a motif of a spectral or demonic entity found primarily in the folklore of the british isles dreaming a black dog might be hinting at the shadow archetype the unknown part of the dreamer if the dogs eyes are

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web oct 21 2015 a growling dog represents an unhealthy friendship now let s say you dream about a dog growling at you maybe from a shadowy alley this is a warning to take notice of a new relationship or

5 spiritual meanings behind dreaming about dogs [mindbodygreen](#) - Jun 21 2023

web aug 19 2022 in fact according to professional dream analyst lauri loewenberg dogs are the most common animal people dream about in her experience with clients followed by cats and snakes she tells mbg that dreaming of dogs often relates to three key themes relationships friendship and loyalty

ai feature dream screen unveiled for youtube shorts [cnn](#) - Mar 14 2020

web 2 days ago new york new york september 21 matthew simari senior director of product management for youtube s generative ai team announces dream screen on stage at made on youtube at pier 57 on

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web a dog in a dream is the symbol of protection this dream is a simple warning you should try to protect something in life if the dog is friendly then this suggests that someone or that someone is actually protecting you dreaming of dogs can

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web may 13 2023 this is a guide to interpreting dreams about dogs and the dog as a dream symbol it includes information on many facets of dog symbolism including dogs in the collective unconscious guardian dogs guide dogs the dog as a fidelity symbol dogs as death omens and more

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web july 12 2023 by rahul panchal dreaming of dogs is a captivating experience that has attracted people throughout history dogs hold a special place in our hearts as symbols of loyalty and protection when we dream of dogs it often reflects our past experiences and relationships with them

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web may 23 2023 dog dreams are highly prevalent in fact the animal individuals most frequently dream about is a dog according to expert dream analyst lauri loewenberg many people s daily lives include dogs in a frequent prominent and obvious way they are almost everywhere and since dogs are generally well liked by people we are aware of

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web may 15 2021 dreaming about being chased by a dog symbolizes anxiety or fears about making decisions in your work or love life this dream can signify pressure or a need to escape especially if you felt scared while running overall being chased by a dog means you feel burdened and if it is violent you re probably scared of the unknown

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web mar 28 2022 now let's explore some of the meanings of the most common dreams of dogs 1 dreams about dogs you know dreaming about dogs you know is common and can tell you something about your current relationships and how you relate to the emotions of others these dreams can let you know if you are being too closed off to people too

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web aug 16 2023 1 a dog dream can also reflect your loyalty to yourself and represent your perseverance and tenacity to succeed and achieve your dreams the dog's behavior can alter the dream's meaning if they are aggressive it can mean that people around you are disloyal and might betray you

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web another dream of dog meaning may be that someone is coming along it may be that you have been feeling isolated lately a certain individual will then give you the companionship that you deserve although you may initially feel shy around them the dog in your dream is telling you that they are trustworthy

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web sep 8 2023 additionally if you dream that a dog is happy it is a sign of good luck in hinduism there are multiple meanings of a dog in your dream most believe the dog represents faithfulness in christianity dogs are valued for their loyalty and honesty dogs are also known for being symbols of staying on the right path

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web apr 27 2010 craig's plays include laughter in the dark lord of the flies truth in translation co writer dream of the dog ten bush co writer the jungle book the girl in the yellow dress little foot and the imagined land novels include the hill last summer the landscape painter uj main prize winner the dream house uj main

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web may 11 2023 what are serious games they are not aimed at mere entertainment but they are virtual games designed to train educate or teach something in practice they exploit the ludic component to facilitate education they are in a nutshell games intended to educate through entertainment

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grandfathers of serious games it seems only right to mention the most successful commercial flight simulator of them all microsoft flight simulator was created over four decades ago in 1982

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web julia lo iacono david michael describes that there are only two types of people who understand the definition of serious games the game developers who build games and the hardcore gamers who play them both types take their games seriously

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web oct 15 2014 serious games are growing rapidly as a gaming industry as well as a field of academic research there are many surveys in the field of digital serious games however most surveys are

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web serious games are games or game like systems built with game technology and design principles for a purpose other than pure entertainment serious games have added intrinsic value embedded within its in game mechanics narrative and design this is what sets them apart from commercial entertainment video games

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web a serious game or applied game is a game designed for a primary purpose other than pure entertainment the serious adjective is generally prepended to refer to video games used by industries like defense education scientific exploration health care emergency management city planning engineering politics and art 2

serious game by hjalmar söderberg goodreads - Feb 27 2022

web oct 27 2015 so the serious game was in my literature textbook described as possibly the most beautiful love story written in the swedish language this is not entirely incorrect but it probably says something about swedish literature basic story boy loves girl girl marries other man boy marries other woman boy and girl meet again boy and girl

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