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under attack makes a new contribution to the field of international relations in general and the study of international law and armed conflict in particular in two core ways first it links information from varying disciplines most notably international relations and international law to form a comprehensive picture of state practice and the challenges it poses to the legal rules for the use of force secondly it organises the information in such a way to identify two core groups of contemporary justifications used by states humanitarian reasons and self defence both with their sub categories at the core of this book is the question of how state practice since 1990 has challenged the long established legal regime on the international use of force are we merely witnessing a temporary and insignificant challenge to international law or are the rules genuinely under attack

this multi author text provides in depth analyses of space ethics and approaches to governance on territories beyond earth with insights from a vast background of academic subjects including science law philosophy psychology and politics it presents a holistic take on the expression of space freedoms and what it might mean for humankind

Ôan insightful guide to some key developments in the international governance of genetic resources exploration of the central role of state sovereignty in current approaches aids understanding of the impact that the socio economic and political context has on the content and direction of rules in this area the book includes extensive information on the influence of treaty regimes that are often marginal to or absent from other analyses of genetic resource governance outer space seas and oceans and antarctica Õ D catherine rhodes the university of manchester uk this detailed and concise book surveys the international genetic resources laws applying in antarctica space the oceans and seas the lands and the airspaces above land and water the well structured analysis traces the evolution of these various schemes and their contributions to the comprehensive arrangements under the convention on biological diversity the international treaty on plant genetic resources for food and agriculture and the world health organizationÕs pip framework the book details the different avenues and concluded positions documenting a laboratory of legal approaches and possibilities regulating genetic resources will be a valuable addition to academics governments ngos and students in environmental and intellectual property law

this book examines the question of why effective action has been taken to ameliorate some global environmental problems while no improvement has been made on others this book provides a comprehensive typology of the potential costs and benefits of effective agreements and clarifies the leader s true interests on particular environmental issues

this book offers a comprehensive article by article legal commentary on the united nations convention against transnational organized crime and its protocols on trafficking in persons smuggling of migrants and trafficking in firearms and ammunition the convention often referred to by the acronym untoc was approved by the un general assembly on 15 november 2000 and made available for governments to sign at a high level conference in palermo the heartland of the italian mafia on 12 15 december 2000 for this reason untoc is sometimes also referred to as the palermo convention the convention entered into force on 29 september 2003 the purpose of untoc is to promote cooperation to prevent and combat transnational organized crime more effectively untoc seeks to promote consistency among national legal systems and set standards for domestic laws so that states parties can effectively combat transnational organized crime untoc is supplemented by three protocols the protocol against the smuggling of migrants by land air and sea the protocol to prevent suppress and punish trafficking in persons especially women and children and the protocol against the illicit manufacturing of and trafficking in firearms their parts and components and ammunition article by article this books presents the text of each provision of the convention and the protocols followed by a systematic analysis of their background and negotiating history their interpretation by the conference of the parties and its working groups in judicial decisions by domestic and international courts in the academic literature and in official material published by international organisations chief among them the united nations office on drugs and crime unode the guardian of untoc and the protocols the authors offer critical scholarly commentary the book serves as a compendium for those using researching or studying provisions under untoc and the protocols and as a handbook for those charged with implementing and enforcing them

over a relatively short period of time beijing moved from dismissing the un to embracing it how are we to make sense of the people s republic of china s prc embrace of the un and what does its engagement mean in larger terms this study focuses directly on beijing s involvement in one of the most contentious areas of un activity human protection contentious because the norm of human protection tips the balance away from the un s westphalian state based profile towards the provision of greater protection for the security of individuals and their individual liberties the argument that follows shows that as an ever more crucial actor within the united nations beijing s rhetoric and some of its practices are playing an increasingly important role in determining how this norm is articulated and interpreted in some cases the prc is also influencing how these ideas of human protection are implemented at stake in the questions this book tackles is both how we understand the prc as a participant in shaping global order and the future of some of the core norms which constitute that order

this book examines southeast asia s rejection of international refugee law through extensive archival analysis and argues that this rejection was shaped by the region s response to its largest refugee crisis in the post 1945 era the indochinese refugee crisis from 1975 1996

key resolutions from the first fifty years of the united nations general assembly

rethinking the 21st century brings much needed context and perspective to the security problems we face today in recent years the bush doctrine that the security threats we now face are entirely unprecedented has echoed around the world global security and stability is now challenged not only by states and nuclear war but by insurgency disease environmental degradation and military privatisation yet this creates a deep sense of disconnect in the way we perceive politics and can be dangerously stark and ahistorical the chapters here show that far from being a clean break the new problems faced today might actually have old solutions what can locke tell us about terrorists what does bentham have to say about sanctions what are the ethics of outsourcing war to private companies by looking back to decades and even centuries of ethical analysis and political theory this book provides fascinating insight into all these questions

this volume raises important timely issues regarding the challenges and opportunities confronting the global community which both policy makers and academicians will find informative and thought provoking in their efforts to understand the nature and com

this is the chapter slice globalism and health gr 5 8 from the full lesson plan culture society globalization help students make informed decisions about civil matters and lifestyle choices that affect themselves and the world our resource provides students with the building blocks to understand the debates and issues surrounding globalization go back in time to experience the influence of the ottoman empire on the greater world debate the pros and cons of globalization in today s world conduct a survey at your school to find out whether mother languages are being passed down to current generations explore the negative impacts of the spread of western culture to the rest of the world plan international vacations for people that minimize the negative impacts of tourist activity on indigenous and local populations find out how globalization can cause the spread of infectious diseases to occur more quickly watch the world come together to deal with the global issue of climate change represent a nation during a united nations meeting to draft additions to human rights law aligned to your state standards and written to bloom s taxonomy additional hands on activities crossword word search comprehension quiz and answer key are also included

this book provides the first comprehensive account of france s relationship to human protection since the 1980s by investigating the mutual impact interconnected yet distinct domestic and international norms of human protection have had on each other over time

the congressional record is the official record of the proceedings and debates of the united states congress it is published daily when congress is in session the congressional record began publication in 1873 debates for sessions prior to 1873 are recorded in the debates and proceedings in the congress of the united states 1789 1824 the register of debates in congress 1824 1837 and the congressional globe 1833 1873

is the armenian genocide a strictly historical matter if that is the case why is it still a topical issue capable of causing diplomatic rows and heated debates the short answer would be that the century old armenian genocide is much more than a historical question it emerged as a political dilemma on the international arena at the san stefano peace conference in 1878 and has remained as such into our days the disparity between knowledge and acknowledgement mainly ascribable to turkey s official denial of the genocide has only heightened the politicization of the armenian question thus the memories of the wwi era refuse to be relegated

to the pages of history but are rather perceived as a vivid presence this is the result of the perpetual process of politics of memory the politics of memory is an intricate and interdisciplinary negotiation engaging many different actors in the society who have access to a wide range of resources and measures in order to achieve their goals by following the armenian question during the past century up to its centennial commemoration in 2015 this study aims to explain why and how the politics of memory of the armenian genocide has kept it as a topical issue in our days

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Taking Flight with Rubber Band Power: A Comprehensive Guide to Rubber Band Powered Airplane Design

The dream of flight, once the exclusive domain of mythical creatures and daring adventurers, has been democratized. While jet engines and sophisticated avionics power modern aircraft, a simpler, more fundamental principle underlies all flight: harnessing stored energy to overcome gravity. This principle is beautifully demonstrated by the humble rubber band powered airplane – a testament to ingenuity and a fantastic learning tool for understanding aerodynamics and engineering principles. This guide provides a deep dive into designing and building your own efficient and exciting rubber band airplane, taking you from basic concepts to advanced techniques.

I. Understanding the Fundamentals of Flight

Before delving into design specifics, it's crucial to grasp the core aerodynamic principles that govern flight. Rubber band powered airplanes rely on four fundamental forces: Lift: The upward force generated by the airplane's wings. The shape of the wing (airfoil) is crucial; it's designed to create a pressure difference between the upper and lower surfaces, pushing the wing upwards. A more curved upper surface generates more lift. Thrust: The forward force that propels the airplane. This is provided by the unwinding rubber band, twisting the propeller to generate thrust. The propeller's pitch (angle of the blades) and size influence the thrust produced. Drag: The resistive force that opposes the airplane's motion. Drag is influenced by the airplane's shape, size, and surface roughness. Minimizing drag is essential for maximizing flight time and distance. Weight: The downward force exerted by gravity on the airplane. Reducing the weight of the airplane, without compromising structural integrity, significantly improves performance.

II. Design Considerations: The Blueprint for Success

The design of your rubber band airplane is paramount to its success. Several key elements influence performance: Wing Design: The wingspan, chord (width of the wing), and airfoil shape all affect lift and drag. Experimentation is key here. A longer wingspan generally increases lift, but also drag. A symmetrical airfoil provides stability but less lift than a cambered (curved) airfoil. Consider designs like the classic "Wright Flyer" style or more advanced designs with dihedral (upward angled wings) for stability. Fuselage Design: The fuselage (body) should be lightweight and streamlined to minimize drag. Balsa wood is a popular choice due to its light weight and strength. The fuselage's design should also accommodate the rubber band mechanism and propeller efficiently. Propeller Design: The propeller's diameter, pitch, and number of blades significantly impact thrust. Larger diameter propellers generally generate more thrust, but also increase drag. A steeper pitch results in higher speed but potentially less thrust. Experiment with different propeller designs to optimize performance. Consider using lightweight materials like balsa wood or even stiff card stock for your propeller. Rubber Band Selection: The rubber band's thickness and length directly influence the stored energy and the thrust generated. Thicker bands store more energy but may be harder to wind. Longer bands provide greater winding potential and thus, longer flights. Experiment to find the sweet spot for your design. Weight Optimization: Use lightweight materials like balsa wood, cardboard, or foam board wherever possible. Minimize the use of glue and other heavy components. Careful planning and design are crucial to keep the weight as low as possible.

III. Construction Techniques and Materials

Building your rubber band airplane requires precision and attention to detail. Here's a suggested process: 1. Design and Sketch: Start with a detailed sketch of your airplane, including dimensions and materials. 2. Material Selection: Choose lightweight materials like balsa wood, foam board, or cardboard for the fuselage and wings. Consider using bamboo skewers for structural support. 3. Cutting and Shaping: Use sharp tools like craft knives and scissors to cut your materials precisely. Sand balsa wood to smooth out rough edges. 4.

Assembly: Use lightweight glue like wood glue or hot glue (use with caution) to assemble the components. Ensure that all joints are secure and aligned correctly. 5. Propeller Attachment: Securely attach the propeller to the rubber band mechanism, ensuring proper alignment for efficient thrust generation. 6. Testing and Refinement: Test your airplane repeatedly, making adjustments to the design based on its flight characteristics. This iterative process is crucial for optimization.

IV. Real-World Examples and Advanced Techniques

Numerous designs exist, from simple glider-like structures to more complex models incorporating advanced aerodynamic features. Studying the designs of successful rubber band airplanes, including those found online or in model airplane kits, can inspire your own creativity. Advanced techniques include: Aerodynamic profiling: Refining the airfoil shape to optimize lift and minimize drag. Wing warping: Slightly altering the wing shape during flight to control roll and yaw. Control surfaces: Incorporating simple control surfaces like ailerons or elevators for more precise flight control, though this adds complexity.

V. Conclusion

Building a rubber band powered airplane is a rewarding experience that combines engineering principles with creative design. By understanding the fundamental forces of flight, carefully considering design elements, and iteratively refining your construction, you can create an airplane that achieves impressive flight performance. Remember that experimentation and continuous improvement are key to unlocking the full potential of your design.

FAQs

1. What type of glue is best for building a rubber band airplane? Wood glue or a low-temperature hot glue gun are commonly used, but always ensure the glue is lightweight and

doesn't add unnecessary weight. 2. How do I adjust the rubber band for optimal performance? Experiment with different rubber band thicknesses and lengths to find the balance between stored energy and winding ease. 3. My airplane keeps crashing. What could be wrong? Check for imbalances in weight distribution, inadequate wing design (lack of lift or excessive drag), or a poorly aligned propeller. 4. What are some advanced design elements I can incorporate? Consider adding dihedral to the wings for stability, experimenting with different airfoil shapes, or exploring the use of control surfaces (ailerons/elevators). 5. Where can I find more resources on rubber band airplane design? Numerous online resources, including videos and tutorials, can provide additional guidance and inspiration. Search for terms like "rubber band airplane designs," "rubber band powered glider," or "simple airplane construction."

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audio