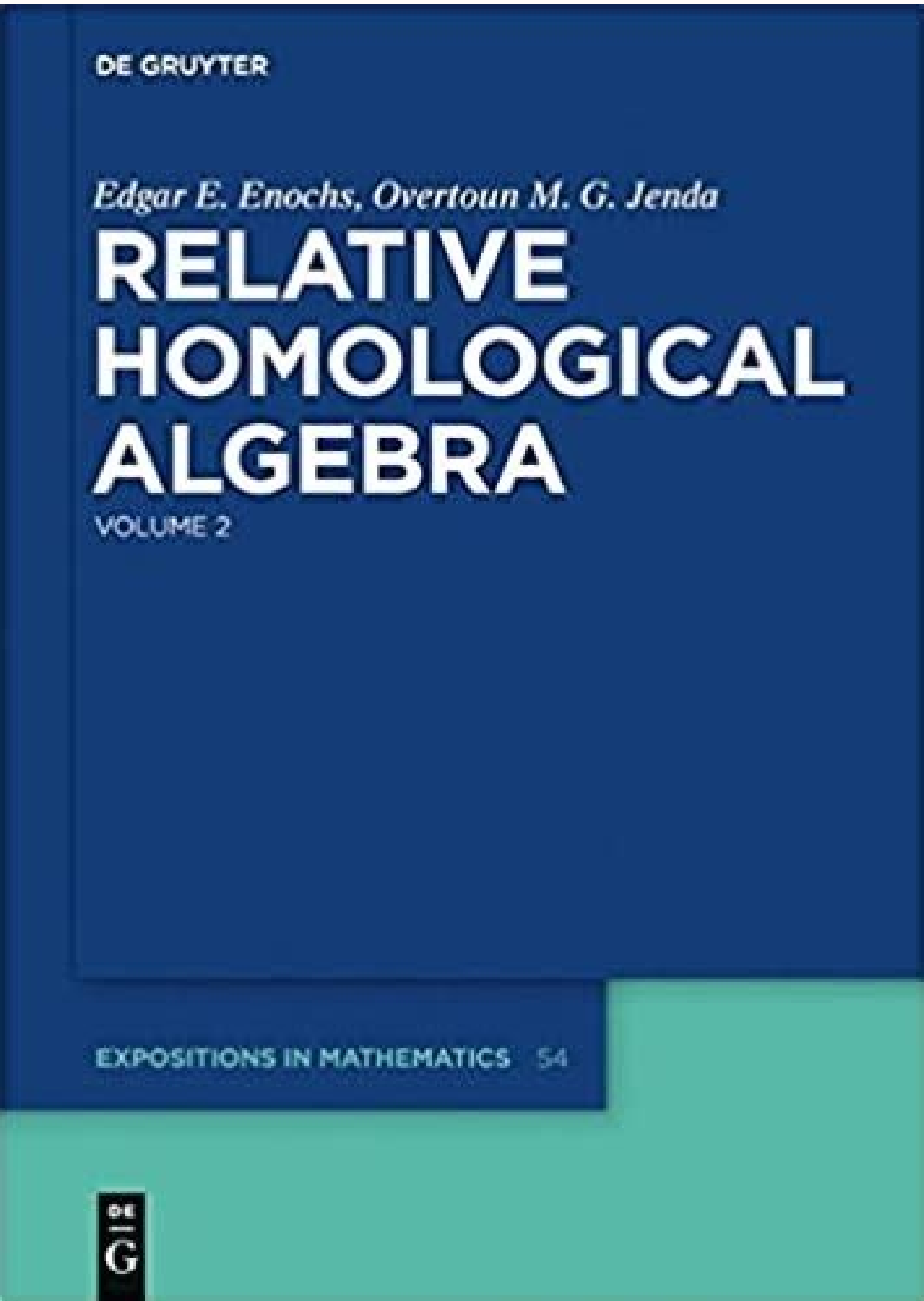


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For multiple-choice questions, circle the letter of the one best answer (unless more than one answer is asked for). Show your work on free-response questions. Be sure to use proper units and significant figures in your final answers. Organization and neatness count, too. Do NOT use red ink — please reserve that color for grading.

1. Each of the eight straight wire segments shown below has identical length and carries identical current (namely, $I_A = I_B = I_C = \dots$). Each group of four wires is immersed in its own infinite, uniform magnetic field, as shown. Wires A, B, C, F, and G all lie exactly in the plane of the page.

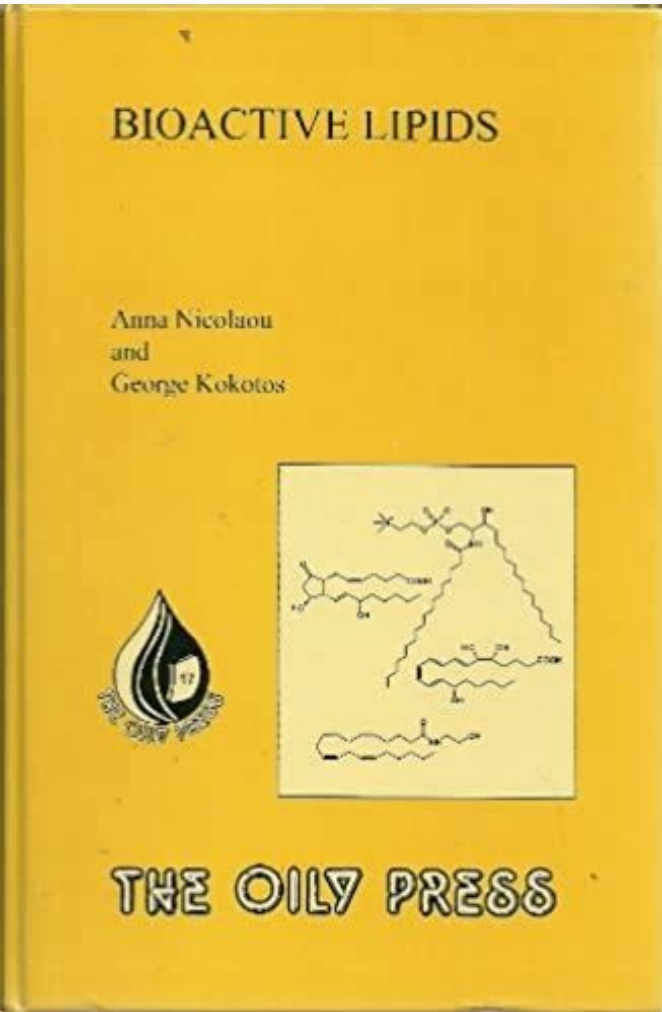
a. (4 pts. total; -1 pt. per error) On EACH of the eight wires below, draw a vector clearly showing the direction of the net magnetic force acting on each wire. Be precise and neat. If you determine that ZERO force acts on a particular wire, indicate that next to the wire.

Group 1: Magnetic field \mathbf{B} is into the page (indicated by 'x' marks). Wire A is vertical with current I_A down. Wire B is vertical with current I_B up. Wire C is at an angle of 70° to the horizontal with current I_C up. Wire D is at an angle of 25° to the horizontal with current I_D into the page (indicated by a circle with a dot).

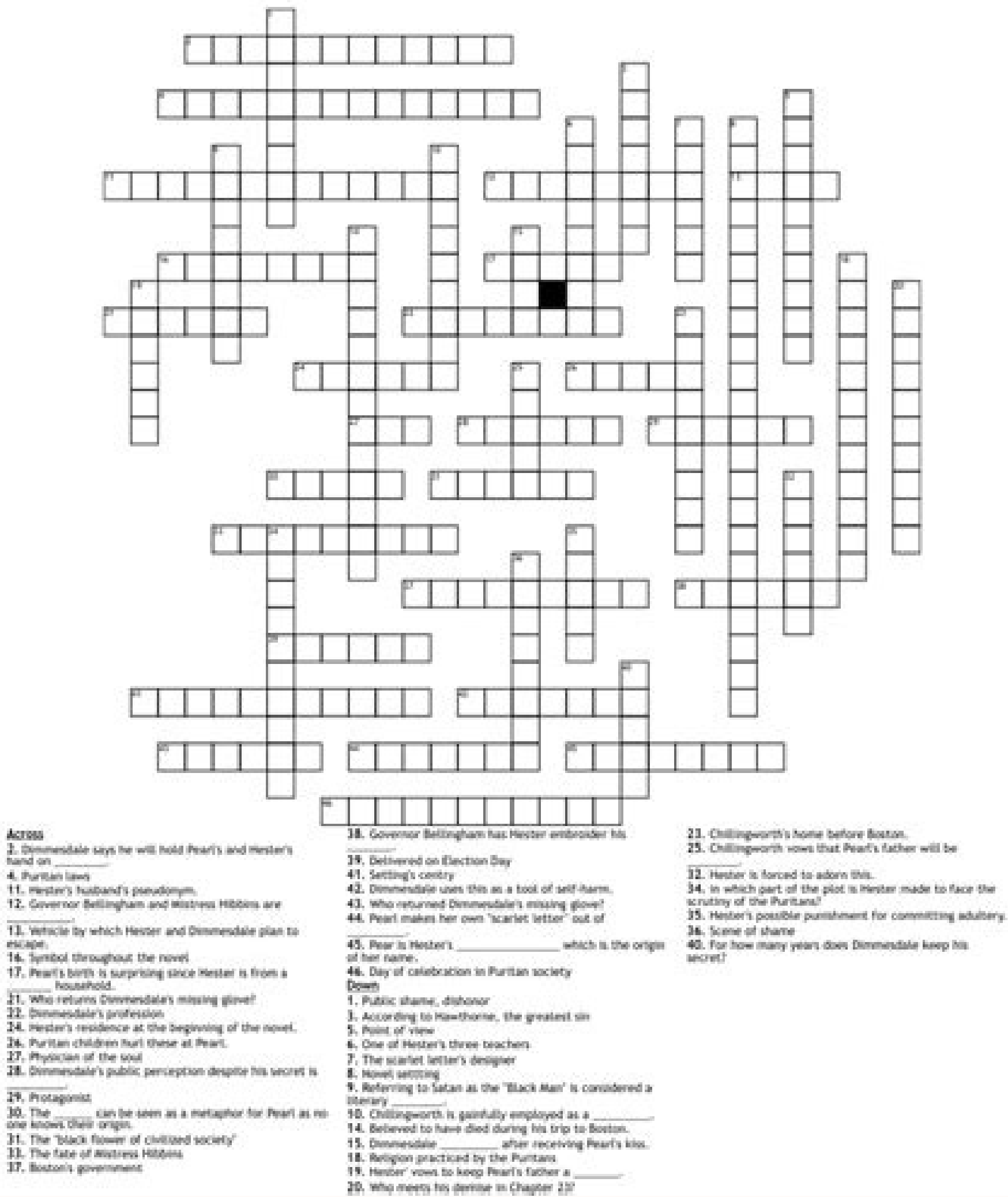
Group 2: Magnetic field \mathbf{B} is down (indicated by downward arrows). Wire E is vertical with current I_E into the page (indicated by a circle with a dot). Wire F is at an angle of 60° to the horizontal with current I_F up. Wire G is at an angle of 25° to the horizontal with current I_G down. Wire H is vertical with current I_H into the page (indicated by a circle with a dot).

b. (1 pt.) Rank each of the above groups of four wires in order from weakest to strongest magnetic force. If two wires experience the same force, equate them:
Example: Wires A-D: $F_D < F_A = F_B = F_C$
Wires E-H: _____

c. (3 pts.) Consider wire G above. Suppose the wire has a length of 130 cm (about 4 feet). If the magnetic field strength is $55 \mu\text{T}$ (roughly true near the Earth's surface) and the electrical current is 12 A (typical for a large household appliance), calculate the magnitude of the net magnetic force acting on the wire. Show your work completely:



The Scarlet Letter



Retrieved February 6, 2008. Most of TheSpark's users were high school and college students. Our mission at NOAA Fisheries Alaska Regional Office is the science-based stewardship of Alaska's marine resources and their habitats in the Gulf of Alaska, eastern Bering Sea, and Arctic oceans. We are responsible for supporting sustainable fisheries, recovering and conserving protected species, such as whales and seals, and promoting healthy ecosystems and resilient Alaska coastal communities. Later, a popular study supplement called "Kramnotes" were put into circulation. ^ Miller, Erin (January 2, 2006). ^ "SparkNotes Mobile Apps". The Wall Street Journal. The Mirror: Later on, SparkNotes expanded to provide study guides for a number of other subjects, including biology, chemistry, economics, health, math, physics, and sociology. - in print". Eugene, Oregon, United States. Please integrate the section's contents into the article as a whole, or rewrite the material. ^ Formato, Brynne (February 5, 2004). San Francisco: Hearst Communications Inc. Study guide website SparkNotesType of siteStudy guideAvailable inEnglishOwnerBarnes & NobleCreated bySam Yagan, Max Krohn, Chris Coyne, and Eli BolotinURLwww.sparknotes.comCommercialYesRegistrationOptionalLaunchedSeptember 1, 1999[1]Current statusActive SparkNotes, originally part of a website called The Spark, is a company started by Harvard students Sam Yagan, Max Krohn, Chris Coyne, and Eli Bolotin in 1999 that originally provided study guides for literature, poetry, history, film, and philosophy. The Register-Guard. Retrieved February 4, 2008. The SparkNotes.com website also includes a section for students to search for colleges. SparkNotes LLC. Our high quality research supports sustainable management and conservation of Alaska marine species with economic and cultural benefits for the nation. Tulsa World. January 24, 2019. SparkNotes receives revenue from advertisements. Working with industries, stakeholder groups, government agencies, and private citizens, we ensure that these activities have minimal impact on essential fish habitat and marine life in Alaska. SparkNotes. Whether you're a 1L, an experienced BigLaw associate, or a solo practitioner, you can find the latest news and tips for your career here. Practice of Law Law practice is a lifestyle. secdatabase.com. Federal Courts FindLaw's federal court blogs bring legal professionals the latest news, information, opinions, and events from the federal circuits and Supreme Court. Archived from the original on 21 December 2007. "There's room for sparknotes, too". Retrieved April 13, 2022. Zip Publishing. Dow Jones & Company, Inc. To increase the site's popularity, the creators published the first six literature study guides (called "SparkNotes") on April 7, 1999.[1][3][4] In 2000, the creators sold the site to iTurf Inc. Using the best available science, we work through the Council process authorized under the Magnuson-Stevens Fishery Conservation and Management Act to develop measures for best management of Alaska's fisheries, considering a range of factors such as the health of the fish stocks and economic impact of fishery practices. Retrieved March 25, 2008.[permanent dead link] ^ "About SparkNotes". ^ a b Eger, Andrea (February 22, 2008). The following year, Barnes & Noble(4) purchased SparkNotes and selected fifty literature study guides to publish in print format. Archived from the original on March 6, 2008. SparkNotes has moved into educational publishing with books, such as Poetry Classics and FlashKids, a series of educational books for Kindergarten to grade 8 students. "No, it's a cheap shortcut that does no one any good". Internet Broadcasting Systems, Inc. Alaska waters support some of the most important commercial fisheries in the world. Retrieved 12 September 2012. The Harvard Crimson. Archived from the original on 31 January 2005. Once fishing levels and regulations are adopted and approved, the Alaska Regional Office works to implement the Council decisions. "SITE SPECIFIC-www.sparknotes.com". Barnes & Noble sells printed versions of the test prep study guides, as well as SparkCharts and other printed study materials, in the United States and at Chapters in Canada. The goal is to allow fishermen to harvest the optimum amount of fish while leaving enough in the ocean to reproduce and provide future fishing opportunities in perpetuity. Retrieved 19 March 2006. The Denver Channel. Harvard: The Harvard CrimsOn Inc. NOAA Fisheries conducts and reviews environmental analyses for a large variety of activities ranging from commercial fishing, to coastal development, to large transportation and energy projects. Retrieved February 21, 2019. Retrieved May 14, 2018. 25 June 2002. External links Official website Retrieved from " FindLaw's consumer blogs feature the best and latest in legal news, information, tips, trends, and analysis. Law and Daily Life Everyday life is full of challenges requiring basic legal knowledge. We also study the key areas where these animals feed, breed, and grow. "SparkNotes A Hit With High School Crowd". ^ Bowman, James (8 August 2003). ^ Kestler, Justin. The Christian Science Monitor. "Is SparkNotes worthwhile? Large and diverse populations of whales, seals, sea lions, and porpoises and Alaska native hunting and fishing communities also share these waters. The free SparkNotes mobile app for the iPhone/iPod and Android[7] offers: 50 pre-installed study guides in the app library Hundreds of study guides available for viewing online The ability to download any study guide to the mobile device for offline use The ability to share what one is studying and one's status by checking in with a customized post to Facebook Criticism or Controversy section may compromise the article's neutral point of view of the subject. Fairfield, Connecticut, United States. Retrieved 24 March 2008. Legally Weird is your home for strange lawsuits, dumb crimes, celebs getting into trouble, legislative oddities, and anything else we find offbeat. Courtside Making sense of the latest legal news can be challenging. Archived from the original on 12 August 2007. The Alaska Regional Office works with the Alaska Fisheries Science Center and the North Pacific Fishery Management Council to manage Alaska's sustainable fisheries. Retrieved 19 March 2008. We analyze biological, oceanographic and ecological data collected during research surveys and by trained fisheries observers in our laboratories. Archived from the original on February 12, 2008. ^ a b Borja, Anais; Lester, Amelia (18 October 2001). Archived from the original on May 15, 2018. San Francisco Chronicle. This project was followed by the release of SparkCharts, reference sheets that summarize a topic; No Fear Shakespeare, transcriptions of Shakespeare's plays into modern language; and No Fear Literature, transcriptions of literary classics like The Adventures of Huckleberry Finn and The Scarlet Letter into modern language.[1] In April 2022, a paid service, SparkNotes Plus, released, locking many works from the No Fear Shakespeare series, their modern translations of Shakespeare plays, among other things, behind a pay-wall, and adding new features.[6] Other features SparkNotes Test Prep provides content and services related to the ACT, and AP, GRE and PSAT/SAT I and II standardized tests. Legally Weird Sometimes the law is, well, weird. Our habitat conservation activities include protecting essential fish habitat, mitigating damage to and enhancing habitat affected by hydropower project construction and operations, removing invasive species, and restoring habitat that has been affected by development, oil spills, and other human activities. January 31, 2019. ^ Martin, Stacy (5 September 2004). World Publishing Co. Retrieved March 2, 2008. "A quick study: online sites speed up reading". Archived from the original on 27 March 2008. Our Law and Daily Life blog is here to answer questions about family issues, real estate, accidents and injuries, immigration, workplace law, and much more. They also provide exercises for high school teachers. Retrieved March 25, 2008.[permanent dead link] ^ "Coming Soon: The New SparkNotes Blog!". "Help:The Plagiarism Plague". "The Rise and Success of Sparknotes". Retrieved March 24, 2008.[permanent dead link] ^ Nguyen, Kim Ngan (2 October 2003). ^ "Sparkler Posts » A MESSAGE TO SPARKKNOTES EDITORS - please take time to read if you see this". When it comes to important legislation and impactful legal disputes, Courtside breaks it all down for you. Alaska's coastal communities depend on healthy marine resources to support commercial and recreational fisheries, tourism, and the Alaskan way of life. ^ "Competition for CliffsNotes arrives on the scene. The View. Yes, used properly it can enhance our education". Archived from the original on 13 December 2008. From this, we learn more about marine animal diets, growth and reproduction, food web dynamics and the role of humans in marine ecosystems. ^ Simmauer, Lauren; Dumler, Christie (20 June 2007). "Students love study guides". We study the health and size of marine animal populations. "Murder Most Foul". SparkNotes states that it does not support academic dishonesty[12] or plagiarism.[13] Instead, it suggests that students read the original material, and then check SparkNotes to compare their own interpretation of the text with the SparkNotes analysis.[9][14][15][16] In January 2019, site developers announced a complete redesign of the SparkLife section of the website in order to focus more on literature-related content. To study ocean habitats, we monitor environmental conditions important to sustain marine life. FindLaw's blogs for legal professionals have it all — from news on the most important federal court cases to tips for growing your business and implementing new technology. ^ "Barnes & Noble inc. Form 10-Q. Quarterly Report, Filing Date Jun 18, 2001". Lawyer Marketing Get news, insights, and milestones about how to improve your practice's marketing from the FindLaw Lawyer Marketing team. (January 2020) Because SparkNotes provides study guides for literature that include chapter summaries, many teachers see the website as a cheating tool.[8] These teachers argue that students can use SparkNotes as a replacement for actually completing reading assignments with the original material[9][10][11] or to cheat during tests using cell phones with Internet access. This announcement was met with a negative response from SparkLife users due to the removal of user-made accounts, blog posts, and comments.[17][18] See also BookRags CliffsNotes Coles Notes Quizlet Schaum's Outlines Shmoop York Notes References ^ a b c "A Brief History of SparkNotes". Archived from the original on February 8, 2008. We focus on habitats used by federally-managed fish species located offshore, nearshore, in estuaries, and in freshwater areas important to migratory salmon. Today they serve as one of Sparknotes top competitors. Until 2022, when SparkNotes Plus, a paid service, released, SparkNotes did not charge users to use all of its resources. SparkNotes Blog. Archived from the original on 19 September 2012. Archived from the original on January 31, 2019. ^ "SparkNotes Plus: Exclusive, Ad-Free Study Material & Test Prep". When Barnes & Noble printed SparkNotes, they stopped selling their chief competitor, CliffsNotes.[5] In January 2003, SparkNotes developed a practice test service called SparkNotes Test Prep. We use this and other information to monitor changes to marine animal populations and Alaska ecosystems over time. ^ Saltz, Molly (January 2, 2006). Barnes & Noble acquired SparkNotes.com in 2001 for approximately \$3.5 million.[2] History TheSpark.com was a literary website launched by four Harvard students on January 7, 1999. For instance, we regularly monitor sea surface temperatures in the Bering Sea, Aleutian Islands and Gulf of Alaska.

3. Scarlet letter was published in the 19th century but it is set it the time of the Puritans 4. One of his ancestors had been among the judges who condemned women as witches at the 1692 trials. a) Looked down on Puritan way and wrote fiction b) Felt guilt and that the fate of his ancestors came down on him c) Like he was also at fault 5 ... A summary of Chapters 15-16 in Zora Neale Hurston's Their Eyes Were Watching God. Learn exactly what happened in this chapter, scene, or section of Their Eyes Were Watching God and what it means. Perfect for acing essays, tests, and quizzes, as well as for writing lesson plans. The Scarlet Letter Log in Sign Up for PLUS; My Account . Account Details | Subscription & Billing ... Summary: Chapter III. That night, Harker questions his host about the history of Transylvania. Dracula speaks enthusiastically of the country's people and battles, and he boasts of the glories of his family name. Over the course of the next several days, the count, in turn, grills Harker ...

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