

১। (ক) হল ভোল্টেজ কি? বায়োট-সাবাটের সূত্র প্রয়োগ করে একটি বৃত্তাকার কুণ্ডলীর কেন্দ্রে ফ্লাক্স ঘনত্ব (B) এর মান নির্ণয় কর। ১+৫=৬

(খ) কোন স্থানে বিনতি নির্ণয়ের একটি পদ্ধতি বর্ণনা কর। ৫

(গ) ৭০Ω রোধের একটি তারের মধ্য দিয়ে ৫A প্রবাহ ২০ মিনিট প্রবাহিত করলে কত জুল তাপ উৎপন্ন হবে নির্ণয় কর। ৪

অথবা,

(ক) ফ্লাক্স ঘনত্বের সংজ্ঞা দাও। কার্শফের সূত্রের সাহায্যে রোধ পরিমাপের দুইটাস্টোনট্রীজ নীতি প্রতিষ্ঠা কর।

(খ) একটি চার্জিত ধারকে সম্বন্ধিত শক্তির রাশিমালা প্রতিপাদন কর।

(গ) একটি বৃত্তাকার কুণ্ডলীর পাক-সংখ্যা ৬০ এবং ব্যাসার্ধ ০.১৫m, কুণ্ডলীতে কত মাত্রার তড়িৎ প্রবাহ চালনা করলে কেন্দ্রে ৩৫০mT চৌম্বক ক্ষেত্রের সৃষ্টি হবে? ৪

২। (ক) দেখাও যে, সংযুক্ত থাকা অবস্থায় দুটি পাতলা লেন্সের ক্ষমতা এদের পৃথক পৃথক ক্ষমতার যোগফলের সমান। ৪

(খ) আলোর বেগ নির্ণয়ের ফিজোর পদ্ধতি বর্ণনা কর। ৭

(গ) কোন অপবর্তন গ্রেটিং-এ প্রতি সেন্টিমিটারে ৪২০০ রেখা রয়েছে। এর উপর সোডিয়াম আলোর সমান্তরাল রশ্মিগুচ্ছ অভিলম্বভাবে আপতিত হলে বর্ণালী রেখার দ্বিতীয় ক্রম ৩০° অপবর্তন কোণ উৎপন্ন করে। সোডিয়াম আলোর তরঙ্গদৈর্ঘ্য নির্ণয় কর। ৪

অথবা,

(ক) হাইগেন্সের নীতি প্রয়োগ করে আলোর প্রতিফলনের সূত্র প্রমাণ কর।

(খ) দৃষ্টির প্রধান ত্রুটিগুলো কি কি? ত্রুটিগুলো কিসে দূর করা যায় চিত্রসহ বর্ণনা কর।

(গ) পানি ও ইীরকের প্রতিসরাঙ্ক যথাক্রমে ১.৩৩ এবং ২.৪ হলে ইীরকে আলোর বেগ কত হবে নির্ণয় কর। ৪

(পানিতে আলোর বেগ $2.28 \times 10^8 \text{ms}^{-1}$)

৩। (ক) তেজস্ক্রিয় ক্ষয় সূত্রটি বিবৃত কর। অর্ধায়ু ও ক্ষয় ধ্রুবকের মধ্যে সম্পর্ক স্থাপন কর। ১+৪=৫

(খ) বোরের মডেল অনুসারে হাইড্রোজেন পরমাণুর শক্তির রাশিমালা বের কর। ৬

(গ) ২ g.m.u. ভর সম্পূর্ণরূপে শক্তিতে রূপান্তরিত হলে Mev-এ তুল্যশক্তি নির্ণয় কর। ৪

অথবা,

(ক) দৈর্ঘ্য সংকোচন কি? দেখাও যে, $L = L_0 \sqrt{1 - v^2/c^2}$, এখানে চিহ্নগুলো প্রচলিত অর্থ বহন করে। ১+৪=৫

(খ) ফোটন কি? ব্যাভ তত্ত্বের আলোকে পরিবাহী, অর্ধ-পরিবাহী ও অন্তরকের আচরণ ব্যাখ্যা কর। ১+৫=৬

(গ) একটি রকেট কত বেগে চললে এর দৈর্ঘ্য সংকুচিত হয়ে নিচল দৈর্ঘ্যের অর্ধেক হবে? ৪

৪। দিক পরিবর্তী প্রবাহ ও স্বকীয় আবেশ গুণাঙ্কের সংজ্ঞা দাও। দেখাও যে, কোন পরিবর্তী প্রবাহের গড় মান ঐ প্রবাহের শীর্ষমানের ০.৬৩৭ গুণ। ২+৩=৫

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1. Understanding the eBook Jsc Dhaka Board Out Question 2014
 - The Rise of Digital Reading Jsc Dhaka Board Out Question 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Jsc Dhaka Board Out Question 2014
 - 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 Jsc Dhaka Board Out Question 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jsc Dhaka Board Out Question 2014

- Personalized Recommendations
- Jsc Dhaka Board Out Question 2014 User Reviews and Ratings
- Jsc Dhaka Board Out Question 2014 and Bestseller Lists
- 5. Accessing Jsc Dhaka Board Out Question 2014 Free and Paid eBooks
 - Jsc Dhaka Board Out Question 2014 Public Domain eBooks
 - Jsc Dhaka Board Out Question 2014 eBook Subscription Services
 - Jsc Dhaka Board Out Question 2014 Budget-Friendly Options
- 6. Navigating Jsc Dhaka Board Out Question 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Jsc Dhaka Board Out Question 2014 Compatibility with Devices
 - Jsc Dhaka Board Out Question 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jsc Dhaka Board Out Question 2014
 - Highlighting and Note-Taking Jsc Dhaka Board Out Question 2014
 - Interactive Elements Jsc Dhaka Board Out Question 2014
- 8. Staying Engaged with Jsc Dhaka Board Out Question 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Jsc Dhaka Board Out Question 2014
- 9. Balancing eBooks and Physical Books Jsc Dhaka Board Out Question 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jsc Dhaka Board Out Question 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Jsc Dhaka Board Out Question 2014
 - Setting Reading Goals Jsc Dhaka Board Out Question 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jsc Dhaka Board Out Question 2014

- Fact-Checking eBook Content of Jsc Dhaka Board Out Question 2014
- 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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astm a572 steel plate a572 grade 42 50 55 60 65 steel - Mar 16 2022

web a572 grade 42 steel plate and 50 345 and 55 380 are best for riveted bolted or welded structures a572 grade 60 steel plate 65 450 is best for riveted or bolted construction of bridges or for riveted bolted or welded construction in other uses

a572 steel wikipedia - May 30 2023

web astm a572 steel is a common high strength low alloy hsla structural steel used in the united states 1 a572 steel properties are specified by astm international standards 2 grades a572 steel has five different grades 42 50 55 60 and 65 2 each of these grades differ in their mechanical properties and chemical composition

a572 aisi astm uns worldwide equivalent grades steel - Apr 16 2022

web a572 usa aisi astm uns european eu en and worldwide steel equivalent grades these comparison table is only intended as an indication of the closest known equivalent grades the source standards should always be checked for the specific purpose for each material in case of doubt

a36 a572 grade 50 carbon hot rolled steel sheet plate alro - Oct 23 2022

web it meets the requirements of both astm a 36 and astm a572 50 a 36 a572 50 s strength form ability and excellent welding properties make it suitable for a large variety of different applications a 36 a572 50 s yield strength is increased to 50 000 psi higher than that of a normal a 36

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web the astm a572 specification is the standard specification for high strength low alloy columbium vanadium structural steel for used in general construction and structural applications astm a572 includes five grades with specified minimum yield strengths of 42 50 55 60 and 65 ksi respectively

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web dec 31 2021 50 345 a 50 345 4 b 100 b all all all all 55 380 55 380 2 1 Ú2 64 all all all all 60 415 a 60 415 2 1 Ú2 c 64 c 2 50 all all 65 450 65 450 2 50 2 50 all all a in the above tabulation grades 42 50 and 60 290 345 and 415 are the yield point levels most closely approximating a geometric progression pattern

astm a572 steel grade 50 matweb - Apr 28 2023

web astm a572 steel grade 50 recently viewed materials available properties density typical of astm steel hardness brinell based on conversion from tensile strength hardness rockwell b based on conversion from tensile strength tensile strength ultimate tensile strength yield elongation at break in 200 mm elongation at break in 50 mm

datasheet for steel grades carbon steel a572 gr 50 - Dec 25 2022

web this page is mainly introduced the a572 gr 50 datasheet including chemical information mechanical properties physical properties mechanical properties heat treatment and micro structure etc it also contains the use of a572 gr 50 such as it is commonly used in bars sheet plates steel coils steel pipes forged and other materials

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web astm a572 the astm a572 specification is the standard specification for high strength low alloy columbium vanadium structural steel for plates used in general construction and structural applications astm a572 includes five grades with

specified minimum yield strengths of 42 50 55 60 and 65 ksi respectively

a572 structural carbon hsla steel plate chapel steel - Jun 18 2022

web astm a572 a high strength low alloy steel plate that is utilized in a variety of structural applications this specification is produced in grades 42 50 55 60 65 the grades representing the yield strength plates that are 4 and thicker are made to a 42 ksi yield although material can be modified to reach the 50 ksi min yield

mechanical properties of astm a572 grades 50 and 60 steels at - Nov 23 2022

web this study presents a detailed experimental study on the mechanical properties of astm a572 grade 50 gr 50 and grade 60 gr 60 steels at high temperatures in addition extensive literature data on the yield strength tensile strength and elastic modulus of mild steel ms high strength steel hss and very high strength steel vhss