

Physics 2nd Semester Key Concepts:

Hey,
nice words!



Heat Processes:

Adiabatic:

A process in which essentially no heat is lost or gained is referred to as...

Isothermal:

A process which is done in which the temperature does not change appreciably.

Beats:

If one tuning fork vibrates at 440 Hz and another at 443, the # of beats heard is the difference in their frequencies ($443 - 440 = 3$ beats).

When comparing the loudness of two sounds in dB (decibels), for example 60dB and 40 dB: first take the difference ($60 \text{ dB} - 40 \text{ dB} = 20 \text{ dB}$). Then change to Bels ($10 \text{ dB in } 1 \text{ Bel} \rightarrow 2 \text{ Bels}$). \rightarrow The 2nd sound is 10^2 or 100X louder.

When comparing the loudness of two sounds in dB (decibels) as recognized by your brain through your ears, for example 60dB and 40 dB: after taking the difference ($60 \text{ dB} - 40 \text{ dB} = 20 \text{ dB}$) as above, and changing to Bels ($10 \text{ dB in } 1 \text{ Bel} \rightarrow 2 \text{ Bels}$). \rightarrow The 2nd sound is heard by the ear not as 10^2 or 100X louder but as 2^2 or 4X louder.

Identifying pictures of types of waves:

Standing wave:



Longitudinal wave:



Transverse wave:



Electromagnetic wave:



Albert Einstein Significant Dates:

Special Relativity: 1905

General Relativity: 1915/1916

Sir Arthur Eddington verify Einstein's General Relativity theory during an eclipse of the sun: 1919

Nobel Prize received: 1921

Temperatures of a lake or pond frozen over: Bottom of pond is always 4°C since water is most dense there



2nd Semester Review Physics

Ensheng Dong



2nd Semester Review Physics:

Middle-west School Review ... ,1920 **Catalogue [of The] Northwestern Military and Naval Academy, ...**
Northwestern Military and Naval Academy (Lake Geneva, Wis.),1905 Collegiate Year ... Simpson College,1911
Catalogues, Courses of Study, Reports and Similar Publications Ypsilanti (Mich.). Board of Education,1860
Catalogue Northwestern Military and Naval Academy (Lake Geneva, Wis.),1899 *Annual Catalog ...* University of
Idaho,1909 Catalog Washburn University of Topeka,1921 **Catalogue** American University of Beirut,1930
Northwestern Military Academy ,1908 **Annual Catalogue** Montana State College of Agriculture and Mechanic
Arts, Montana State College,1912 *General Information and Announcements* University of Oklahoma,1902 **The Birds**
of Green Lake County, Wisconsin J. N. Loshinski,1912 **Catalog** ,1906 Report Iowa. Department of Public
Instruction,1912 Announcement of the Summer Session State University of Iowa,1927 **Public Documents**
Nebraska,1913 Report Nebraska. Department of Public Instruction,1914 **The Schoolmaster** ,1907 **Catalogue of**
the Officers and Students Berea College,1914 **Bulletin of Berea College and Allied Schools** ,1909

2nd Semester Review Physics Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **2nd Semester Review Physics**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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