

VIDEO PEMBELAJARAN

MATERI: COLLISION AMONG MOLECULE GAS

PART 2

Dapat diakses di: http://youtu.be/_GiSX6_FFvU atau <http://jeikhsan.wordpress.com/kuliah/>

The screenshot shows a YouTube video player for the video "Collision Rate (Z₁₁)" by Jasin Ikhsan. The video is currently at 00:21 / 13:36. The video content includes a slide with the following text and equations:

Collision Rate (Z₁₁)

$$Z_{11} = Z_1 \cdot N^* \left(\frac{1}{2} \right)$$

Double Counting Factor

$$Z_{11} = \frac{1}{\sqrt{2}} \cdot \pi \cdot d^2 \cdot v_{avg} \cdot (N^*)^2$$

$N^* = \frac{N}{V} = ???$

The video player shows 81 views and was uploaded by jasinikhsan on May 27, 2011. Below the video, there is a description: "To determine the collision rate & mean free path". The right sidebar shows a list of related videos, including "Maxwell-Boltzmann Distribution P...", "Collision of Gas Molecules Part ...", "Mean Free Path", "Kinetic theory of gases for beginners", "The Kinetic Molecular Theory of Gas (part 2)", "kinetic theory 3.avi", and "Work Done by Isothermic Process".

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Jaslin IKhsan: Collision of Gas Molecules Part 2 (Kinetic Theory of Gas)
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Collision Rate (Z_{11})
 $Z_{11} = Z_1 \cdot N \cdot \left(\frac{1}{2}\right)^{1/2}$
Double Counting Factor
 $Z_{11} = \frac{1}{\sqrt{2}} \cdot \pi \cdot d^2 \cdot v_{avg} \cdot \left(\frac{N}{V}\right)^2$
 $PV = nRT$
 $PV = \frac{N}{N_{avg}} RT$
 $\frac{N}{N_{avg}} = \frac{P}{RT} [A]$
 $\frac{N}{V} = \frac{PN_{avg}}{RT} = \frac{P}{RT} [A]$

[Jaslin IKhsan: Maxwell-Boltzmann Distribution P...](#)
 by jaslinikhsan 15:00 419 views

[Jaslin IKhsan: Collision of Gas Molecules Part ...](#)
 by jaslinikhsan 13:51 55 views

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 by MlazzoCookies 8:16 584 views

[Kinetic theory of gases for beginners](#)
 by fizicarsorg 5:16 4,256 views

[The Kinetic Molecular Theory of Gas \(part 2\)](#)
 by tdev#451 8:31 6,117 views

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 by SuperMRlab 4:16 66 views

[Work Done by Isothermic Process](#)
 by khanacademy 15:02 24,002 views

[Kinetic Theory](#)

01:40 / 13:36 360p

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Uploaded by jaslinikhsan on May 27, 2011

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