

PHYSICS

GRADE - 12



GAUSS'S LAW (ELEC. FLUX)

SURISIR





SURI SIR IIT BOMBAY

ACCORDING TO PHYSICS...
THE GLASS IS NEVER EMPTY













Harsh Sir

Theory Class: Monday & Thursday (9pm) MCQ Class: Wednesday (8pm)



Suri Sir

Theory Class: Wednesday & Saturday (9pm)

MCQ Class: Monday (8pm)



Arvind Sir

& Friday (9pm)
MCQ Class: Thursday

(8pm)



Vedantu JEE 2021 Program



-FEATURES-

- → 2500+ hours of LIVE online teaching
- → 45+ Teachers; from Top IITs and 10+ years experience
- → 750 Tests & 3000 Assignments for Practical Application
- → Instant Doubt Solving By Academic Mentors
- → Replay/Recording of Classes If You've Missed
- → Rank Booster Quizzes
- → Previous Paper Analysis

Boost your learning with Vedantu Pro

vdnt.in/YTJEE21

Enroll for FREE

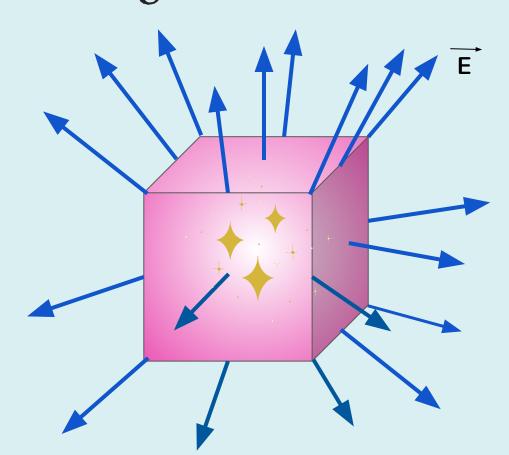






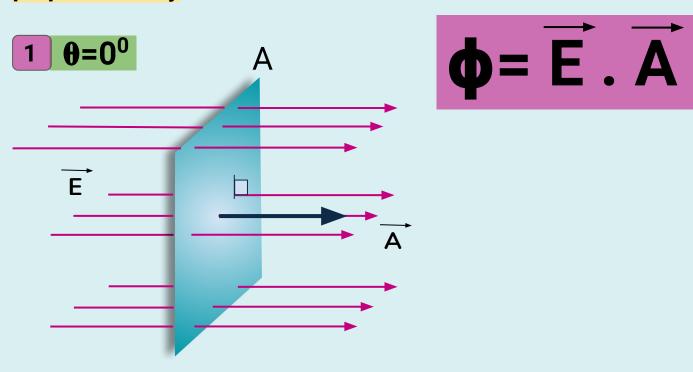
Gauss's Law (Elec. Flux)

What might be inside the box?!!

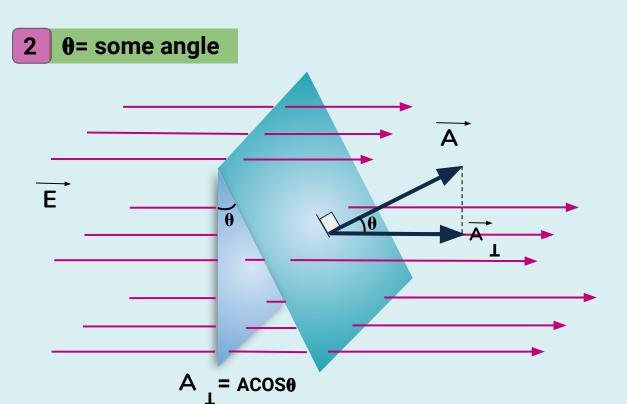




It is defined as the total number electric field lines that penetrate a given surface perpendicularly

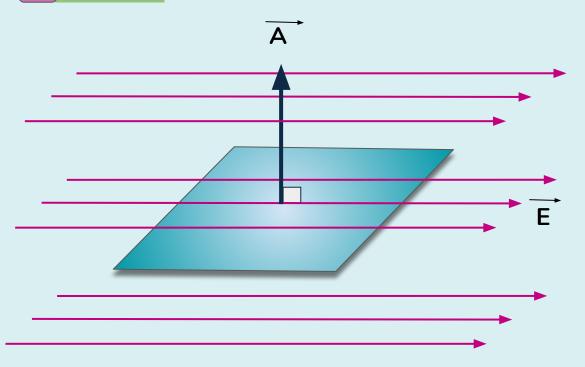






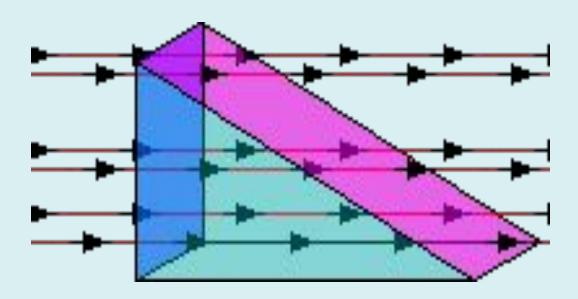


 $\theta = 90^{\circ}$



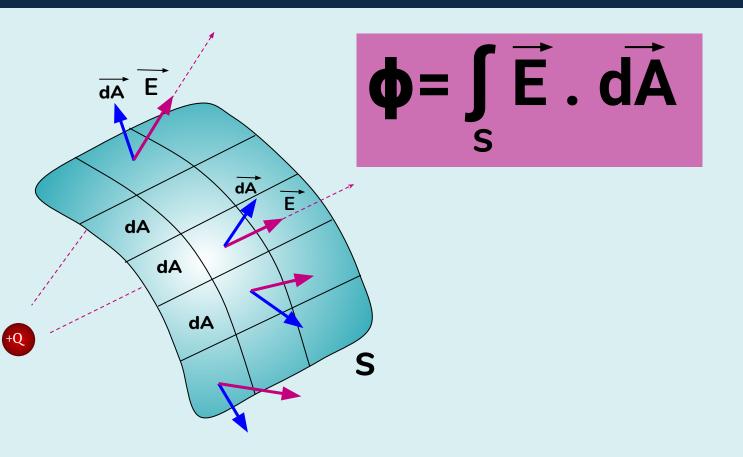


SUPER COOL VISUALIZATION



Non uniform field / irregular surface

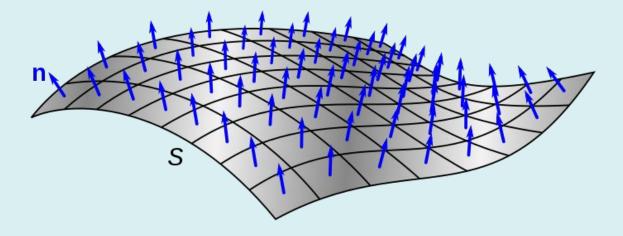




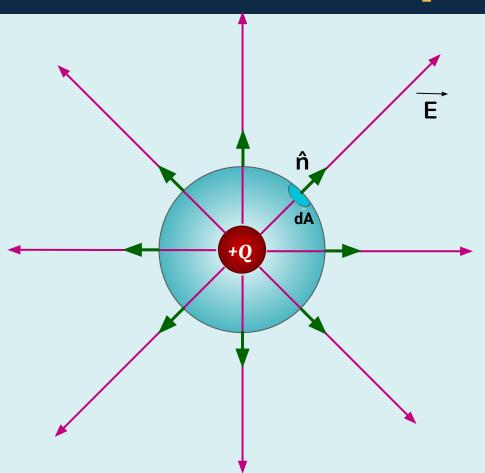


SUPER COOL VISUALIZATION



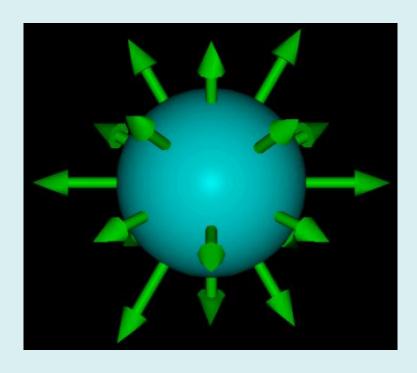




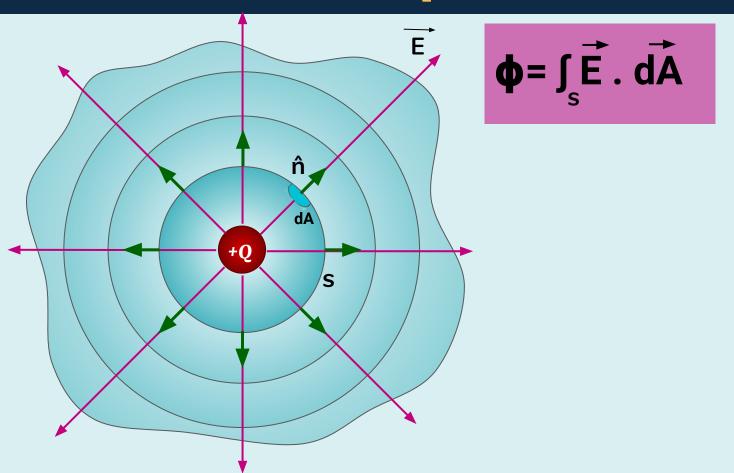




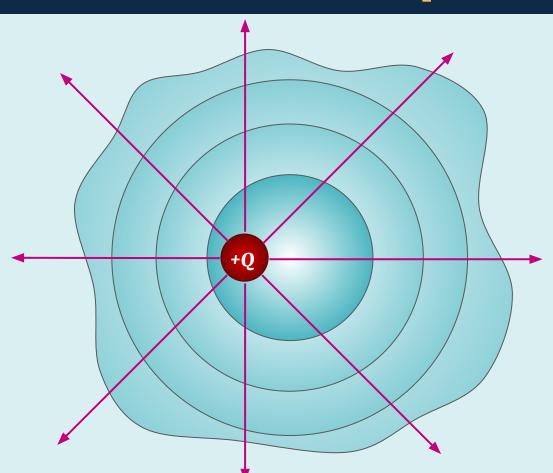
SUPER COOL VISUALIZATION



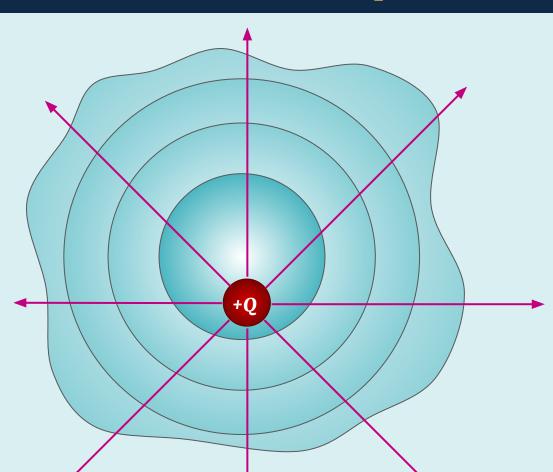




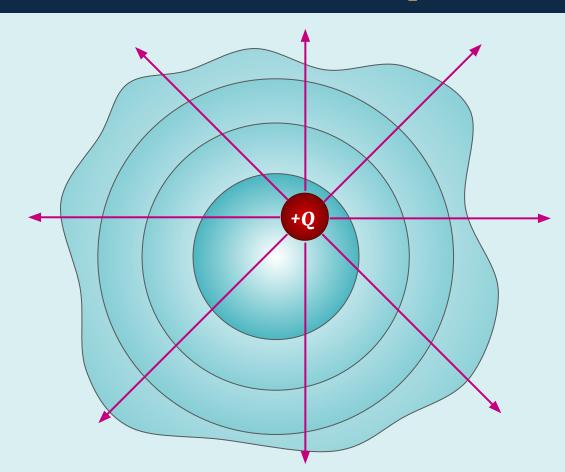












JEE Mains Crash Course

<u>-FEATURES-</u>

- → 90 Live Classes By Best Teachers
 - 3 sessions everyday Mon to Sat for 6 weeks

Batch Started on:

11th MAY 2020

- → 20+ Comprehensive Tests; Assignments & Detailed Analysis
- → UNLIMITED Doubt Solving both inside and outside class.
- → Replay/Recording of Classes If You've Missed
- → Important **Tips & Tricks** To Crack JEE
- → In class Rank Booster Quizzes
- → **Previous Paper** Analysis







Lightning Deal: ₹ 24999 → ₹ 5999



Use Coupon Code: SMCC
Buy Now @ https://vdnt.in/JEECCE







Visit the <mark>link</mark> mentioned below

https://vdnt.in/JEECCE

<u>Step-1:</u>

Click on "ENROLL NOW"

<u>Step - 2:</u>

Click on "I have a coupon code"

<u>Step-3:</u>

Apply Coupon SMCC

ENROLL NOW

Vedanti Online Revolution

KAUN BOLA GHAR SE NAA HOPAYEGA?



JEE ADVANCED 2019 SUCCESS

3 in Top 50 🖈

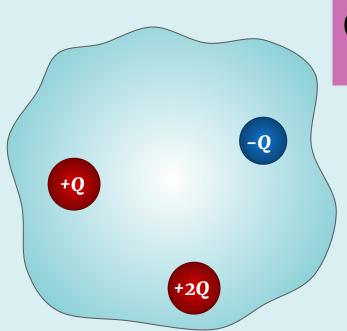
ALL CATEGORIES

GAUSS LAW



Gauss law states that the flux through any closed surface is equal to the total charge

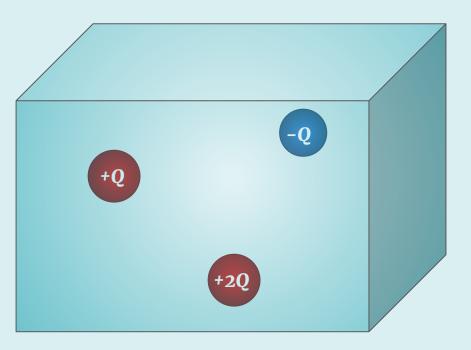
enclosed divided by $\mathbf{\varepsilon}_0$



$$\Phi = \oint \overrightarrow{E} \cdot \overrightarrow{dA} = \frac{Q_{\text{net}}}{\varepsilon_0}$$

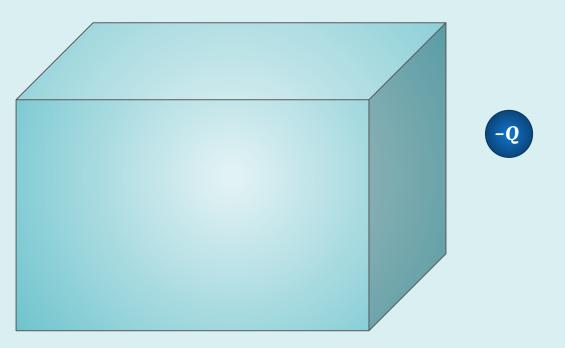


Find the flux through the given closed surface.



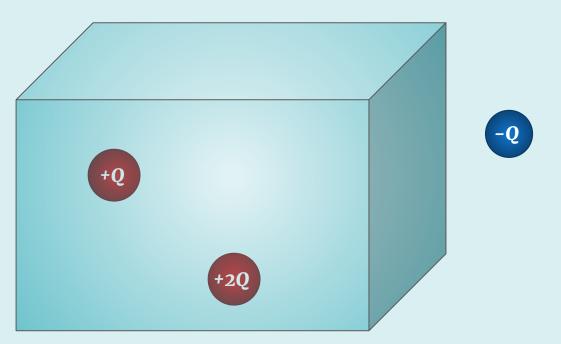


Find the flux through the given closed surface.



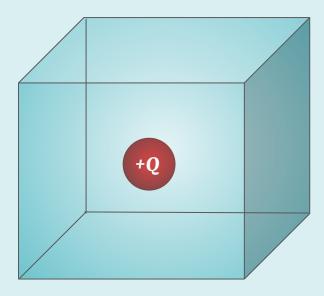


Find the flux through the given closed surface.



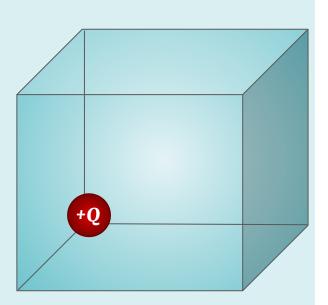


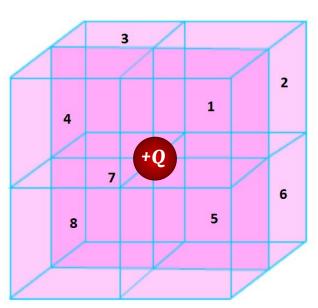
Find the flux through shaded surface of cube if charge +Q is placed at the centre





Find the flux through shaded surface of cuboid if charge +Q is placed at one of the corners





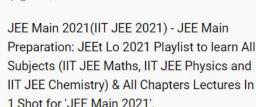


JEEt Lo 2021 | JEE Main 2021 (PCM) | JEE Main Preparation | IIT JEE 2021 | Vedantu JFF

24 videos · 4,965 views · Updated today

Public *









Class 12 | Vedantu JEE Vedantu JEE

Relation between Electric Field and Potential IIT JEE | JEEt Lo 2021 for

Electric Potential & Potential Energy - Electrostatics IIT JEE | JEEt Lo

Electric Field and Potential IIT JEE Quiz | JEEt Lo 2021 | JEE Main 2021 |

Electric Field for Rod/Ring/Spheres - Electrostatics IIT JEE | JEEt Lo



Electrostatics IIT JEE - Electric Field IIT JEE Quiz | JEEt Lo 2021 | JEE Main Physics | Vedantu JEE

Vedantu JEE



2021 for Class 12 | Vedantu Vedantu JEE



JEE Physics | Vedantu JEE

Vedantu JEE • Premieres 5/4/20, 8:00 PM



2021 for Class 12 | Vedantu

Vedantu JEE

Join Vedantu JEE Telegram channel

NOW!

Assignments

Notes

Daily Update

https://vdnt.in/JEEVedantu













#LearningWon'tStop