



# **PHYSICS**

## **GRADE - 12**



•LIVE

# **ELECTRIC FIELD FOR ROD/RING/ SPHERES**

| SURI SIR |



# SURI SIR IIT BOMBAY

ACCORDING TO PHYSICS...  
THE GLASS IS NEVER EMPTY



njoy\_suri





**Harsh Sir**

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



**Suri Sir**

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



**Arvind Sir**

Theory Class: Tuesday  
& Friday (9pm)  
MCQ Class: Thursday  
(8pm)

# Daily Schedule JEE 2021





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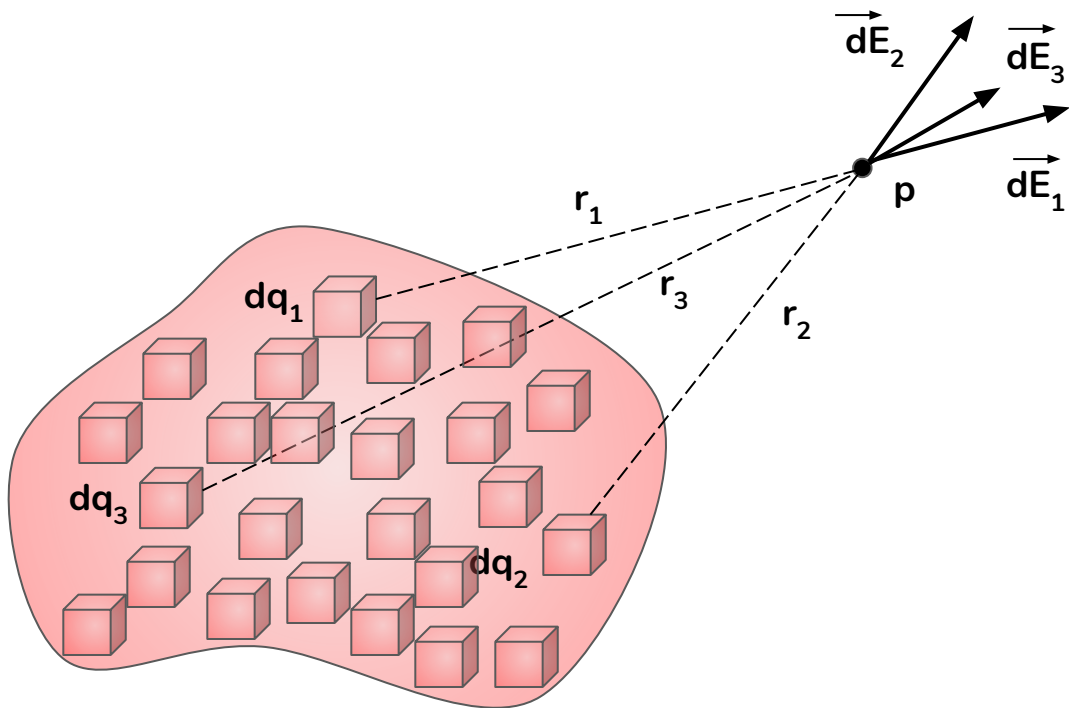


# Session Plan



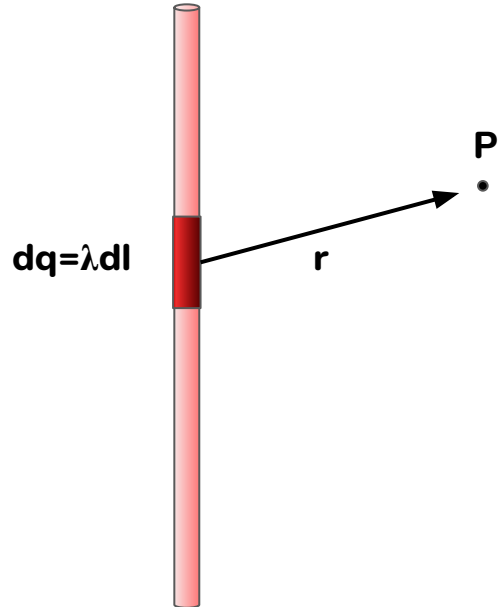
- Continuous charge distribution
- Charge elements
- Electric field of rod, ring, and spheres

# Electric Field Due To Continuous Charge Distribution



# Finding Charge Element ( $dq$ )

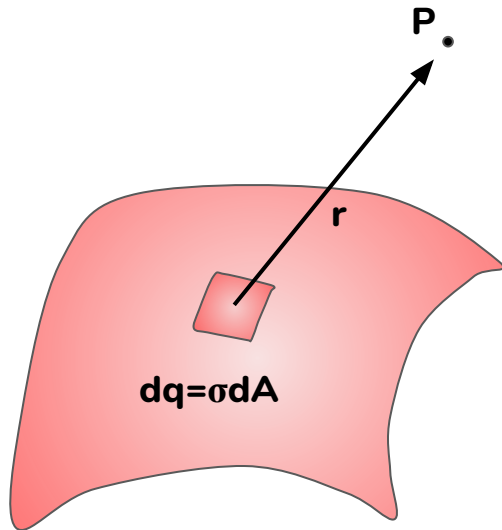
Line element  $\lambda$





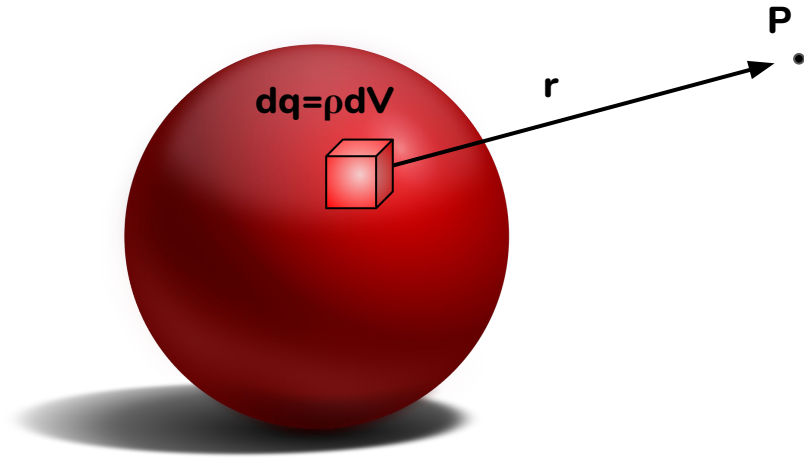
# Finding Charge Element ( $dq$ )

Area element  $\sigma$

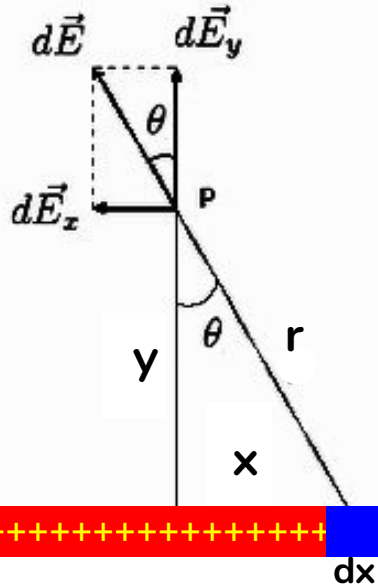


# Finding Charge Element ( $dq$ )

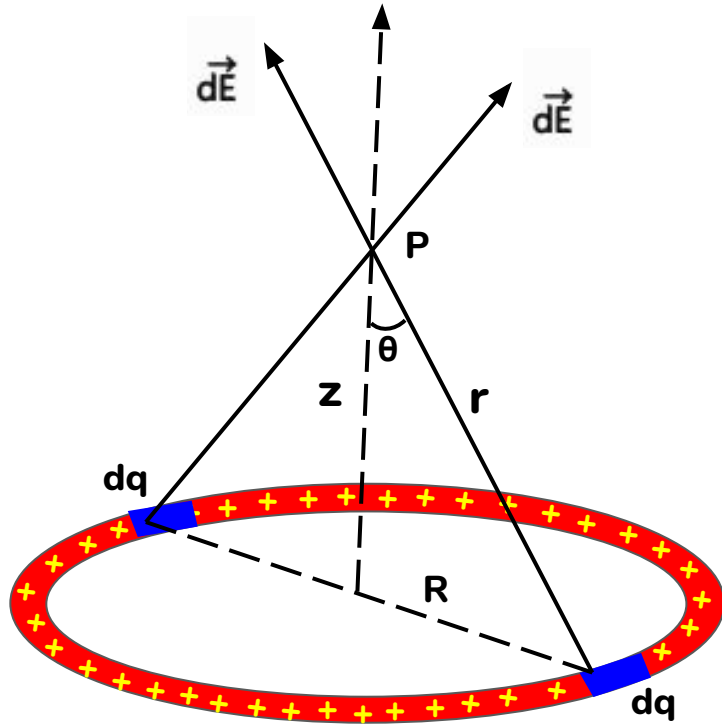
Volume element  $\rho$



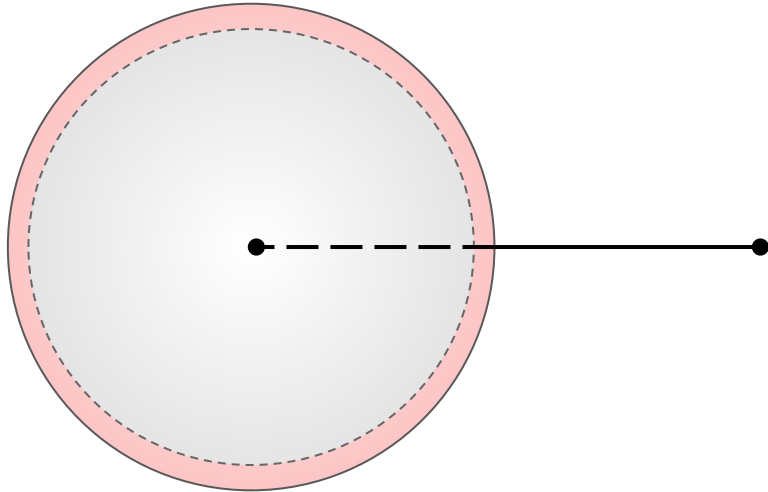
# Electric Field Of an Infinite Line Charge



# Electric Field Of Ring

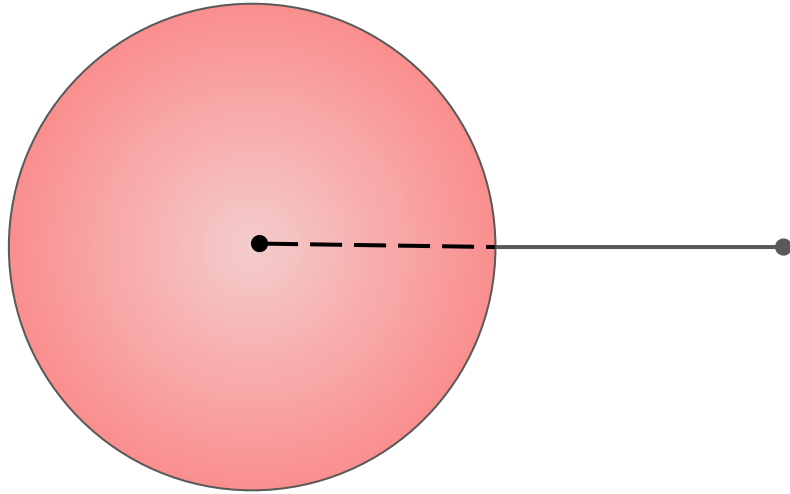


# Electric Field Of Spherical Shell





# Electric Field Of Solid Sphere



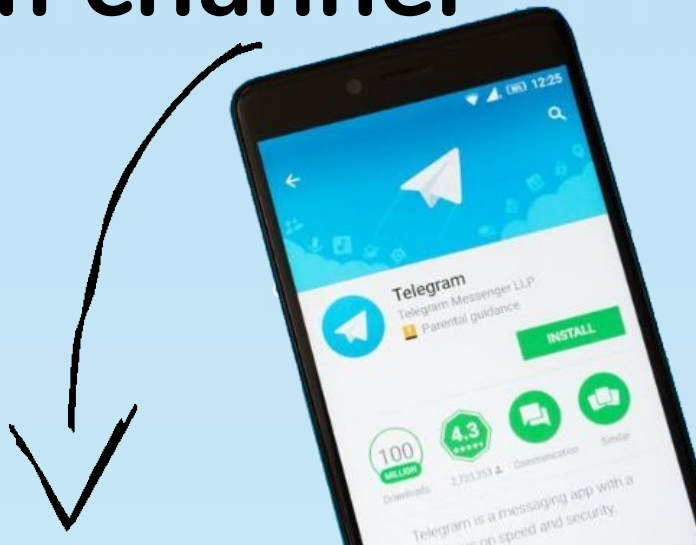


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Assignments

Notes

Daily Update



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Link in Bio



# CRACK JEE



**#LearningWon'tStop**