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# Previous examples

*x*

*y*

*z*



*x*

*y*

*z*

200

*Fy*

*t*

0.02

0.04

200

*Fx*

*t*

0.02

0.04

4



*x*med = *xm*

Start

*x*min, *x*max, *x*med

1

*j* ≤ *N*

*j* = *j* + 1

2

*i* = *i* + 1

N

Y

*θ*

*x*

*y*

*z*

*μs*, *uk*

*I*, *R*

*ω*, *α*

*v*, *a*

*qi*

*qj*

*Fij*

*qi*

*qj*

*Fij*

*qj*

*Ej*

*qj*

*Ej*

*x*

*y*

*z*

*qj*



*x*

*y*

*z*

*dqj*



*y*

*x* (μm)

1

*q*1

2

3

4

5

0

0

1

2

3

4

5

–

+

*q*2

*sy* (μm)

*x*

*y*

*z*

*sz* (μm)

*sx* (μm)

# Superposition principle of F

*q*1

*q*2

*q*3

(a)

(b)

(c)

(d)

*q*1

*q*2

*q*3



*q*1

*q*2

*q*3



*q*1

*q*2

*q*3



# Electrif field lines 1 charge

# Sigmoid plant height

 << === 

# E field examples

# line of charge front

*x*

*y*

*z*

*x* = *b*

*x* = *a*

*L*

*dqj*

*x* = *b* + *l*

*l*



*λ*



*l*

*λ*, *L*



*o*

*o*

# line of charge back

*x*

*y*

*z*

*x* = *b*

*x* = *a*

*L*

*dqj*

*x* = *a* – *l*

*l*



*λ*



*l*

*λ*, *L*



*o*

*o*



# line of charge x, y, z

*x*

*y*

*z*

*l*1+

*λ*1, *L*1



*o*1*+*

*l*1-



*o*1-

*y*

*z*

*x*

*l*2+

*λ*2, *L*2



*o*2*+*

*l*2-



*o*2-

*z*

*x*

*y*

*l*3+

*λ*3, *L*3



*o*3*+*

*l*3-



*o*3-

# line of charges 3-axes

*x*

*y*

*z*

*o*

*l*1

*λ*1, *L*1

*λ*2, *L*2

*λ*3, *L*3

*l*2

*l*3



# scanning method

4

End

3

Y

Start

*f*(*x*), *x*beg, *x*end, Δ*x*

2

*x* = *x*beg

*S*0*S* < 0

*S*0 = *f*(*x*)

*x* = *x* + Δ*x*

*S* = *f*(*x*)

1

2

1

*x* < *x*end

N

N

3

*x*root ∉ [*x*beg, *x*end]

4

*x*root = *x* – ½Δ*x*

*xroot*

# Notes and version

* 130% (Jekyll + MathJax), save as 0000x first then save as back to 0000, remove 0000x then, x = i
* 20210125