1. Units and dimensions

 $nd \frac{1}{U}$ where n = number U = unit

 $n_1 U_1 = n_2 U_2$ $n_1 U = constant$

Dimensional Journals:

1. Angle = length of over = L = L = No dimensions

9 Displacement = $L = \frac{L}{1 \text{ Parsec LPC}} = 10^{12} \text{ m}$ 1 Parsec LPC) = 10^{12} m 1 Parsec LPC) = 10^{13} m

Volume = L3

3 Density = mass = kg = ML3

4. Velocity = LT1

5 Acceleration = Acceleration due to gravity (g) = LT2

6. Momentum p = mv = MLT

7. Force $(f) = \frac{dp}{dt} = \frac{MLT^{-1}}{T} = MLT^{-2} = ma$

8 Impube (I) = Ft = MLT'

9. Radius of gyeration [K] = L

10 Moment of interia [I] = Mk2 = M/2

11. Torque T = Fxler distance

= ML2T2

12. Angulow momentum (nve) = ML2T

13. Friequency (D) = T

14. Planck's constant $(h) = \frac{\mathcal{E}}{\mathcal{I}} \Rightarrow ML^2T^{-1}$

15. Work (W)= FS => ML2 T-2

16. Energy (E) = 1/2 mv2 (80) mgh ⇒ M2 T-2

```
17. Power (P) = Work = ML2 T3
   Specing constant (K) = F/2 \Rightarrow MT^2
29. Buenose = Fosce = ML-172
    Velocity geodient = \frac{dv}{dt} = LT^{\dagger} = T^{\dagger}
21 Sweface tersion (T) = F = MKT2
22. Radiant Power (P) = 0-AeTY = 0-MT 30-4
 23. Thesemal sussistance R=1 = MILT 130
    Angulase velocity (W) = \frac{0}{1} \Rightarrow T'
25 Peropagation constant k = 21 = L
    Charge (9) = It = IT
   Electric field intently [E] = F = MLT I
    Electric flux \phi = EA \Rightarrow ML^3T^3L^{-1}
29. Linear change density (2) = charge =LIT
30- Accept change density 7
                                 Charge = L-2TI
     Swiface charge density I area
    Electric patential V=10/9 = MLITI
     Capacity (C) = 9/V = M'L" 1412
     Current [I] = 9/t = I (8) A
               (R) = \frac{V}{T} = ML^2T^{-3}I^{-2}
    Conductariety o = 1/p
    Residevity P=RA = ML T I
36 Pole steerigth [M] = IL
```

```
37 Magnetic moment [M] = ILXL = IL2
        38 Magnetic field induction (B) = \frac{f}{f} = M \tilde{f}^2 I^{-1}
        39. Magnetic field intersity[H] = B = M'LT 4 I3
        40 Magnetic flux [φ] = BA = ML<sup>2</sup>T<sup>2</sup>I
        41. Self inductance [L] = \frac{2U}{12} = ML^2T^2I^2
        42 Mutual inductance [M] = ML2T2I
        43 Rydberg constant (RH) & 1/2 => L-1
        44 Boltzmann constant (K) = PV => ML2TLO
                      permeability NT = ML72A2
           Negative power in mass
           Universal gravity constant (9) = \frac{Fd^2}{m_1m_2} = M^{-1}L^3T^{-2}
        2. Theremal sussistance (R) = 1 = M12-2730
        Electeric peremitivity = 9192 = M L-374I2
        4. Capacity [C] = 9/V = M L 74 12
        5 Conductance [G] = 1/R = M 1 - 2 3 I2
        6. Conductivity 6 = 4p => M-1 L-373 I2
               Coefficients:
         1. Coefficient of function M = functional force
      from the transfer of mountain force
                                             : No dimension
       2. Coefficient of adstitution e = V2 -V,
                              1 44 44 42 SA
                                              = O= No dimensions
            Vernier cally time
8 Coefficient of viscosity 1 = F => ML-17-1
      Tever dand - May Try Manus were 1/10 - 1/10 M. 1
    4. Coefficient of Uneau expansion & = 12-11 =0-1
                                   2.) to our lot 4 (t2-ti)
  1-K MISKENCK C
```

コイヤ しょうしょ から は こまし

5. Coefficient of asseal expansion
$$B = A_2 - A_1 = 0^{-1}$$
 $B(U_2 + I_1)$

6. Coefficient of volume expansion $Y = \frac{V_2 - V_1}{V_1(t_2, t_1)} = 0^{-1}$

7. Coefficient of appareent expansion $Y_2 = \frac{V_2 - V_1}{V_1(t_2, t_1)} = 0^{-1}$

8. Coefficient of steernal expansion $Y_2 = \frac{V_2 - V_1}{V_1(t_2, t_1)} = 0^{-1}$

9. Coefficient of thermal constant $[K] \ni ML^{\alpha}F^{-1} = [K]KO$
 $[K] = MLI^{-3}O^{-1}$

10. Referentive index $[M] = D = NO$ dimensions

11. Magnification $[m] = NO$ dimensions

12. If $M = MLI^{-3}O^{-1}$

13. Magnetic flux $M = ML^{-2}I^{-2}A^{-1}$

14. If $M = MLI^{-3}O^{-1}$

15. If $M = MLI^{-3}O^{-1}$

16. If $M = MLI^{-3}O^{-1}$

17. If $M = MLI^{-3}O^{-1}$

18. As a is dimensionally quartity.

19. Suelative exacts, $M = ML^{-2}I^{-2}A^{-1}$

19. Suelative exacts, $M = ML^{-2}I^{-2}A^{-1}$

10. Vi. $M = MLI^{-2}I^{-2}A^{-1}$

10. Vi. $M = MLI^{-2}I^{-2}A^{-1}A^{-1}$

10. Vi. $M = MLI^{-2}I^{-2}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-1}A^{-$

T.R = M.S.R + C.SXRXL.C