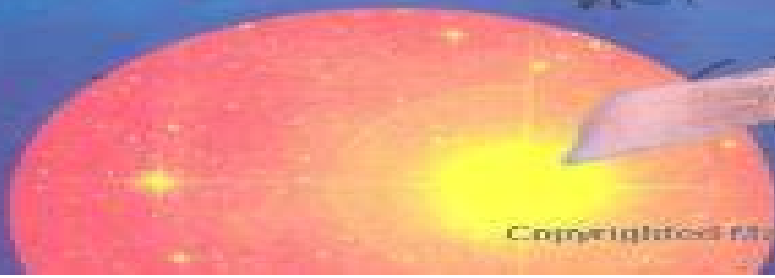




The Nature of Mathematical Modeling

NEIL GERSHENFELD

$$\nabla_{\vec{\mu}_m} L = \nabla_{\vec{\mu}_m} \log \prod_{n=1}^N p(x_n)$$



Nature Of Mathematical Modeling

Jianjun Gao



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web the molar volume will be the volume occupied by one molar mass 32 g of the liquid expressing the density in liters instead of ml we have $v_m \frac{32 \text{ g mol}^{-1}}{790 \text{ g l}^{-1}} = 0.0405 \text{ l mol}^{-1}$ nonumber

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web the molar volume has the si unit of cubic metres per mole $\text{m}^3 \text{mol}^{-1}$ although it is more typical to use the units cubic decimetres per mole $\text{dm}^3 \text{mol}^{-1}$ for gases and cubic centimetres per mole $\text{cm}^3 \text{mol}^{-1}$ for liquids and solids

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web zero degrees celsius or 273 k is defined as standard temperature and one atmosphere or 760 mm hg is defined as standard pressure the volume occupied by one mole of a gas is called molar volume therefore the molar volume of a gas at standard temperature and pressure stp is 22.4 l

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