

$\omega$ .  $v$ .  $F$ .  $\delta$ .  $\psi^{(m)}(z)$ .  $\theta_i$ .  $K$ .  $\tau$ .  $\xi(s)$ .  $o$ .  $\Upsilon$ .  $\varpi$ .  $\lambda$ .  $B(x, y)$ .  $\rho$ .  $\Sigma$ .  $\zeta(s)$ .  $\alpha$ .  $\kappa$ .  $\chi$ .  $H(t)$ .  $\beta$ .  $\epsilon$ .  $\Gamma(n)$ .  $\Delta$ .  $\vartheta(x)$ .  $\mu(n)$ .  $\Theta$ .  $\Psi$ .  $\iota$ .  $\nu$ .  
 $\gamma$ .  $\Xi$ .  $\Pi$ .  $\Omega$ .  $\Phi$ .  $\pi$ .  $\Lambda$ .  $\phi$ .  $\sigma$ .  $\eta$ .  $O$ .  $\vec{\theta}$ .

## Glossary

### asymptotic notation

$O$  big O notation. 1

$o$  small o notation. 1

### biology

$\Pi$  osmotic pressure. 1

### finance

$\Theta$  Theta decay. 1

### fluid dynamics

$\varpi$  angular frequency. 1

### functions

$F$  digamma function. 1

$B(x, y)$  Euler beta function. 1

$\vartheta(x)$  first Chebyshev function. 1

$\Gamma(n)$  gamma function. 1

$\delta$  Kronecker delta. 1

$\mu(n)$  Möbius function. 1

$\psi^{(m)}(z)$  polygamma function. 1

$\zeta(s)$  Riemann zeta function. 1

$\Xi$  Riemann's original xi-function. 1

$\xi(s)$  Riemann's xi-function. 1

### geometry

$\pi$  Archimedes' constant. 1

$\kappa$  curvature. 1

### graph theory

$\chi$  chromatic number. 1

### linear algebra

$\Lambda$  diagonal matrix of eigenvalues. 1

$\lambda$  an eigenvalue. 1

### mechanics

$\tau$  torque. 1

### operators

$\Delta$  Laplace operator. 1

### physics

$\alpha$  angular acceleration. 1

$\omega$  angular velocity. 1

$\nu$  frequency. 1

$\nu$  kinematic viscosity. 1

$\gamma$  Lorentz factor. 1

$\Phi$  magnetic flux. 1

$\Upsilon$  upsilon meson. 1

$\Psi$  water potential. 1

### quantities

$\rho$  density. 1

$\phi$  the golden ratio. 1

$K$  Kappa number. 1

$\Omega$  the omega constant. 1

$\eta$  refractive index. 1

$\epsilon$  small positive quantity. 1

$\theta_i$  the  $i$ th statistical model parameter. 1

$\vec{\theta}$  the vector of statistical model parameters. 1

### set theory

$\iota$  inclusion map. 1

### statistical mechanics

$H(t)$  Boltzmann's  $H$ -Theorem. 1

$\beta$  thermodynamic beta. 1

**statistics**

$\Sigma$  covariance matrix. 1

$\sigma$  standard deviation. 1