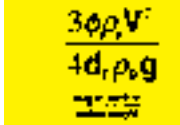
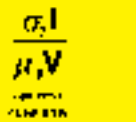
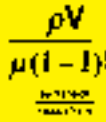
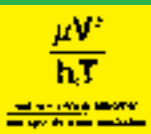
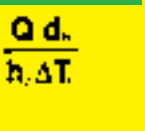
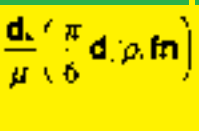
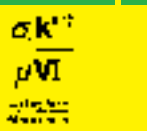
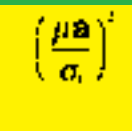
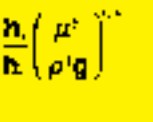
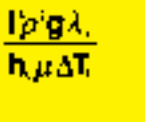
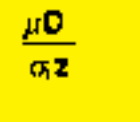
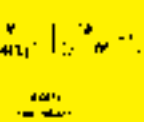
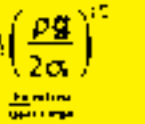
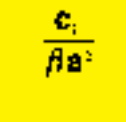
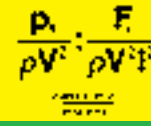
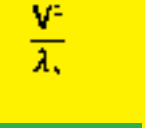
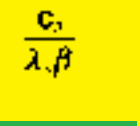
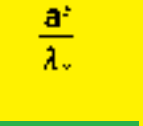
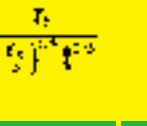
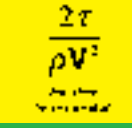
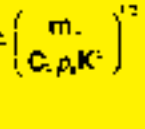
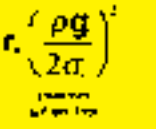
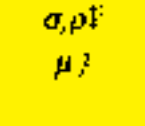
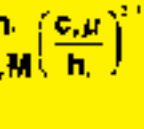
無次元数

加速	空力弾性	アルフベン	アルキメデス	アレニウス
$\frac{E_v^3}{\rho g^2 \mu^2}$	$\frac{2E}{\rho V^2}$	$\frac{V(\rho\mu_o)^{1/2}}{B}$	$\frac{gl^3\Delta\rho_o\rho^2}{\rho\mu^2}$	$\frac{\varepsilon_a}{RT}$
ボーデンシュタイン	**ボルツマン**	**ボンド**	**ブゲール**	**ブーシネスク**
$\frac{Vl_1}{D_1}$	$\frac{\rho c_p V}{e_s \eta_s T^3}$	$\frac{\rho l^2 g}{\sigma^1}$	$\frac{3C_d L_s}{2\rho_s d_s}$	$\frac{V}{(2gr_h)^{1/2}}$
毛管現象-浮力	**毛細管**	**カルノー**	**キャビテーション**	**遠心分離機**
$\frac{g\mu^4}{\rho\sigma_s^3}$	$\frac{\mu V}{\sigma_s}$	$\frac{T_H - T_c}{T_H}$	$\frac{p-p_v}{p_0}; \frac{2(p-p_v)}{\rho V^2}$	$\frac{\rho r_s^2 z\omega^2}{\sigma_s}$
ダンケラーの2番目	**ダンケラーの3番目**	**ダンケラーの4番目**	**ダルシー**	**ディーン**
$\frac{Ul^2}{Dc_{ir}}$	$\frac{QUl}{c_p\rho VT}$	$\frac{QUl^2}{h_s T}$	$\frac{2gHd}{V^2 l}$ $(\quad)(\quad)$	$\rho Vl\left(\frac{l}{2r}\right)^{1/2}$ μ
弾性-3	**電気レイノルズ**	**電気粘着性**	**エリス**	**エルザッサー**
$\frac{\rho c_v}{\beta_s E}$	$\frac{e_s V}{q_e b l}$	$\left(\frac{\rho_s}{2\pi e_m}\right)^{1/2} \rho l^2 \quad q$ $\mu \quad m_e$	$\frac{2\mu V}{\tau_s d}$	$\frac{\rho}{\mu G u_v}$
フォードロフ	**FLIEGNER(フライナー)**	**流量**	**フーリエ熱移動**	**フーリエ熱移動**
$d_s\left[\frac{4g\rho^2}{3\mu^2}\left(\frac{\rho_s}{\rho}-1\right)\right]^{1/3}$	$\frac{Q_m(c_p T)^{1/3}}{A(p_s+\rho V^2)}$	$\frac{Q_s}{\omega d_s}$	$\frac{h_s t}{c_s \rho l^2}$	$\frac{Dt}{l^2}$
重力	**GUKHMAN**	**ホール**	**ハルトマン**	**熱移動**
$\frac{kg\Delta\rho_s}{\mu V_s}$	$\frac{T_s - T_\tau}{T_s}$	$\omega_e t_r$	$\frac{BG^{1/2}l}{\mu^{1/2}}$	$\frac{Q_s}{\rho V^2 l^2}$

用語の説明に関しては、以下のページを参照して下さい。

バグノルド	バンセン	ビンガム	ビオ熱移動	ビオ質量移動	ブレーク
					
BRINKMAN	気泡ヌッセルト	気泡レイノルズ	浮力	毛管現象-1	毛管現象-2
					
クラウジウス	凝縮-1	凝縮-2	収縮	クロッコ	ダンケラー1番目
					
デバイ	DERYAGIN	デュロン	エクマン	弾性-1	弾性-2
					
オイラー	蒸発-1	蒸発-2	蒸発弾性	爆発	ファニング
					
フルード	FRUEH	ガリレオ	グーチャー	グレーツ	グラスホフ
					
ヘッドストローム-1	ハーシー	ホジソン	J-要素熱移動	J-要素質量移動	ヤコブ
					

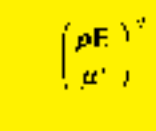
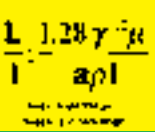
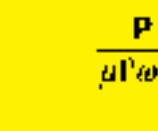
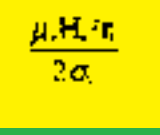
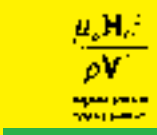
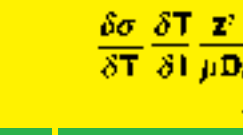
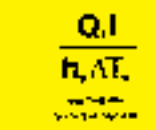
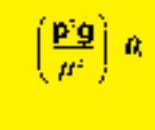
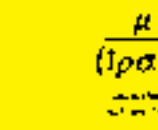
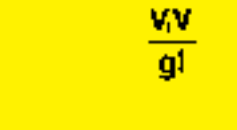
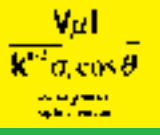
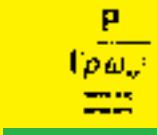
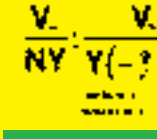
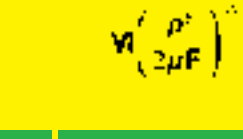
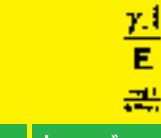
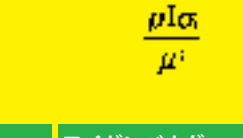
用語の説明に関しては、以下のページを参照して下さい。

無次元数の表

無次元数

ジェイコブ	ジュール	カルマン-1	KIRPICHEVの熱移動	KIRPICHEVの質量移動
$\frac{(T - T_w)\rho c_p}{\lambda_v \rho_v}$	$\frac{2\rho c_p \Delta T}{\mu_0 H_0^2}$	$\frac{\rho \Delta p d^3}{\mu^2 l}$	$\frac{Q_r l}{h_c \Delta T}$	$\frac{M_d l}{D_v \rho R_w}$
ルイス	**ルントクヴィスト**	**リクディス**	**音速**	**磁気-ダイナミック**
$\frac{D\rho c_p}{h_c}$	$\frac{GH_m l \mu_s^{1/2}}{\rho^{1/2}}$	$\frac{G}{\rho}(\mu_s H_s l)\left(\frac{1}{g\beta\Delta T}\right)^{1/2}$	$\frac{V}{a}$	$\frac{GVB^2 l}{\rho V^2}$
質量比率	**McADAMS**	**メルケル**	**モーメ ンタム**	**モートン**
$\frac{m_t}{\pi\rho l^3}$	$\frac{h_c^4 l \mu \Delta T}{k_f^3 \rho^2 g \lambda_v}$	$\frac{MA_v x_v}{Q_w}$	$\frac{M_v \theta_v \rho}{\mu A V}$	$\frac{g\mu^4}{\rho\sigma^3}$
ペクレの熱移動	**ペクレの質量の移動**	**パイプライン**	**ポアズイユ**	**ポアソン**
$\frac{\rho c_p V l}{k}$	$\frac{lV}{D}$	$\frac{a_w V_0}{2gH_s}$	$\frac{d^2}{\mu V}\frac{\delta p}{\delta l}$	$\frac{E_t}{2E_s} - 1$
プラントル速度比率	**PREDVODITELEV**	**放射圧**	**レイリー**	**リージャー**
$V\left(\frac{\rho}{\tau_w}\right)^{1/2}$	$\frac{\delta T}{\delta t}\frac{l^2}{D_t T}$	$\frac{\eta_{sB} T^4}{3p}$	$\frac{c_p \rho^2 g l^3 \beta \Delta T}{\mu k}$	$\frac{K\omega}{a}\left(\frac{m_s}{\pi\rho K^3}\right)^{1/2}$
スロッシュ時間	**ソマーフィールド**	**比熱比**	**比速度**	**圧搾**
$\left(\frac{\sigma_s}{\rho r_t^3}\right)^{1/2} t$	$\frac{F_t \psi^2}{\mu\omega}$	$\frac{c_p}{c_v}$	$\frac{\omega(Q_v)^{1/2}}{(gH_v)^{3/4}}$	$\frac{12\mu\omega}{p_r}\left(\frac{r_b}{\theta_r}\right)^2$
表面の粘着性	**テイラー**	**トーマ**	**トムソン**	**トムス**
$\frac{\mu_s}{\mu_c}$	$\frac{\omega^2\theta_r^3\rho^2}{\mu^2}$	$\frac{p_a - p_v}{p_{out} - p_{in}}$	$\frac{tV}{l}$	$\frac{Q_v}{\rho V^3}$

用語の説明に関しては、以下のページを参照して下さい。

クリピチェフ	クヌーセン	コソヴィック	ラグランジュ-1	ラグランジュ-2	レヴェレット
					
磁力	**磁気相互作用**	**磁気プラントル**	**磁気圧力**	**磁気レイノルズ**	**マランゴーニ**
					
ヌセルトの熱移動	**ヌセルトの質量移動**	**ヌセルトのフィルム厚**	**OCVIRK**	**オーネゾルゲ**	**粒子**
					
パメラーンツェフ	**多孔性の流量**	**POSNOV**	**パワー**	**プラントル熱移動**	**プラントルの質量移動**
					
レイノルズ	**リチャードソン**	**ロスビー**	**ラッセル**	**サックス**	**シラー**
					
スタントン	**ステファン**	**ストーク**	**ストローハル**	**構造的な長所**	**SURATMAN**
					
トランケーション	**二相流動**	**二相の多孔性流量**	**粘弾性**	**ウェーバー**	**ワイゼンベルグ**
					

用語の説明に関しては、以下のページを参照して下さい。

無次元数の表

無次元数

用語集

a	sonic speed (L/t)
a_p	pressure wave velocity (L/t)
A	area (L^2)
A_c	cooling surface area per unit volume (L^{-1})
A_d	conducting area (L^2)
A_r	radiating area (L^2)
b	carrier mobility, speed/voltage gradient ((L^2/t)/m)
B	magnetic induction (m/Qt)
c	specific heat (L^2/t^2T)
c_c	concentration (m/L^3)
c_p	specific heat at constant pressure (L^2/t^2T)
c_v	specific heat at constant volume (L^2/t^2T)
C_w	ratio of dust mass to bed volume (m/L^3)
C_L	slope of lift curve (dimensionless)
d	pipe or tube diameter (L)
d_b	bubble or droplet diameter (L)
d_i	impeller diameter (L)
d_j	jet diameter (L)
d_m	mean particle diameter (L)
d_p	particle diameter (L)
D	mass diffusivity (L^2/t)
D_a	axial mass diffusivity (L^2/t)
D_i	mass diffusivity at interface (L^2/t)
D_m	mass diffusivity of moisture in body (L^2/t)
D_{AB}	molecular diffusivity (L^2/t)
D	thermal diffusivity (L^2/t)
ε_r	permittivity (Q^2t^2/mL^3)
ε_0	permittivity of free space (Q^2t^2/mL^3)
ε	surface emissivity (dimensionless)
E	modulus of elasticity (m/Lt^2)
E_b	fluid bulk modulus (m/Lt^2)
E_t	torsion modulus of elasticity (m/Lt^2)
E_s	shear modulus of elasticity (m/Lt^2)
E_t	tension modulus of elasticity (m/Lt^2)
f	frequency of formation (t^{-1})
f_p	pulsation frequency (t^{-1})
F_p	bearing load per unit area (m/Lt^2)
F_b	bearing load (mL/t^2)
F	force on immersed body (mL/t^2)
F_b	bearing load/length (m/t^2)
F_r	resistance force on immersed body (mL/t^2)
g	gravitational acceleration (L/t^2)
G	electrical conductivity (Q^2t/mL^3)
h_c	thermal conduction coefficient or thermal conductivity (mL/t^3T)
h_g	thermal conductivity of gas (mL/t^3T)
h_r	radiant heat transfer coefficient (m/t^3T)
h_t	heat transfer coefficient (m/t^3T)
H	head loss (L)
H_m	magnetizing force (Q/t)
H_s	static head (L)
H_{st}	head produced per stage (L)
i	porosity, ratio of void to solid volume (dimensionless)
k	permeability (L^2)
k_h	horizontal permeability (L^2)
k_l	longitudinal permeability (L^2)
K	von Karman constant
l	characteristic length or dimension (L)
l_b	bearing length (L)
l_r	reactor length (L)
L	mean free path of molecules (L)
L_d	Debye length (L)
L_r	mean radiation path length (L)

用語集

m_b	mass of body (m)
m_t	mass transfer rate or mass transfer coefficient (L/t)
m_p	particle mass (m)
m_r	wing mass per unit length (m/L)
M	mass transfer per unit area per unit time (m/L^2t)
M_m	mass of moisture evaporated per unit area per unit time (m/L^2t)
M_o	momentum flux (L^4/t^2)
n	number of nucleation centers per unit area (L^{-2})
n_e	number of electrons per unit volume (L^{-3})
N	natural vertical frequency of fluid element about its equilibrium attitude in a density-stratified atmosphere (t^{-1})
p	pressure (m/Lt^2)
p_a	average static pressure (m/Lt^2)
p_c	capillary pressure (m/Lt^2)
p_d	dynamic pressure (m/Lt^2)
p_{in}	total pressure at pump inlet (m/Lt^2)
p_o	atmospheric pressure (m/Lt^2)
p_{out}	total pressure at pump outlet (m/Lt^2)
p_s	local static pressure or pressure drop (m/Lt^2)
p_v	fluid vapor pressure (m/Lt^2)
Δp	pressure drop (m/Lt^2)
P	power input to agitator (mL^2/t^3)
q	charge (Q)
q_e	electron charge (Q)
q_v	space charge density (Q/L^3)
Q	liberated heat per unit mass (L^2/t^2)
Q_a	heat flux per total area per unit time (m/t^3)
Q_h	heat flow per unit time or heat flow rate (mL^2/t^3)
Q_l	heat liberated per unit volume per unit time (m/Lt^3)
Q_m	mass flow rate (m/t)
Q_v	volume flow rate (L^3/t)
Q_w	fuel weight flow per unit time (mL/t^3)
r	radius from explosive to reference point (L)
r_b	blast wave radius (L)
r_b	bearing radius (L)
r_c	bend radius of curvature (L)
r_h	hydraulic radius, ratio of vortex cross sectional area to perimeter (L)
r_p	probe radius (L)
r_s	shaft radius (L)
r_t	tank radius (L)
r_w	vane radius (L)
R	gas constant (L^2/t^2T)
R_c	fractional difference in moisture content of bodies (dimensionless)
R_m	fractional change in moisture content of body (dimensionless)
S	ratio of particle area to volume (L^{-1})
t	time (t)
t	ratio of average free path to average velocity (t)
t_r	reaction or relaxation time (t)
t_s	translation time (t)
τ	time constant (t)
t_c	time constant (t)
t_t	time constant (t)
T	temperature (T)
T_b	bulk temperature (T)
T_f	ambient gas temperature (T)
T_s	source temperature (T)
T_s	initial temperature of body (T)
T_s	boiling temperature (T)
T_w	wet bulb temperature at moist surface (T)
T_s	saturation temperature (T)
T_t	total stagnation temperature (T)

用語集

ΔT temperature difference (T)
ΔT_b body temperature change (T)
ΔT_c temperature difference across liquid film (T)
ΔT_r temperature range of interest (T)
ΔT_s surface temperature excess saturation temperature (T)
ΔT_w temperature difference between wall and gas stream (T)

U reaction rate (m/t^3)

V velocity or flow speed (L/t)
V_b bearing surface speed (L/t)
V_t terminal free fall particle velocity (L/t)
V_{max} maximum gas velocity when expanded to zero temperature (L/t)
V_r reference velocity (L/t)
V_s translational speed (L/t)
V_w wind speed (L/t)
ΔV velocity difference (L/t)

w clearance width (l)
W weight (ml/t^2)

X volume (l^3)
X_t total volume (l^3)

y vertical coordinate (l)
Y height of obstacle (l)

z flood depth (l)

α shear strain rate ($1/t$)
β temperature coefficient of volumetric expansion ($1/T$)
β_l coefficient of linear expansion ($1/T$)
γ specific heat ratio (dimensionless)
γ_s weight density (m/l^2t^2)
Γ specific gravity of fluid (dimensionless)
Γ_s specific gravity of particles (dimensionless)
ε activation energy (l^2/t^2)
ε_c cohesive energy (ml^2/t^2)
Λ rate of deformation ($1/t$)
η Boltzmann constant (ml^2/t^2T)
η_{sb} Stefan-Boltzmann constant (m/t^3T^4)
θ contact angle (dimensionless)
θ_c clearance between cylinders (l)
θ_k film thickness (l)
θ_l fluid layer thickness (l)
θ_s embedded film thickness (l)
θ_w wall thickness (l)
λ heat of condensation (l^2/t^2)
λ_v heat of vaporization per unit mass or heat of evaporation (l^2/t^2)
μ absolute viscosity (m/lt)
μ_0 permeability of free space (ml/q^2)
μ_m magnetic permeability (ml/q^2)
μ_p absolute viscosity in plastic state (m/lt)
μ_s surface viscosity (m/t)
μ_v zero shear viscosity (m/lt)
ν kinematic viscosity (l^2/t)
ρ mass density (m/l^3)
ρ_a mass density of air (m/l^3)
ρ_c mass density of particle cloud (m/l^3)
ρ_c mass density of coal (m/l^3)
ρ_l mass density of liquid (m/l^3)
ρ_p particle mass density (m/l^3)
ρ_v vapor mass density (m/l^3)
$\Delta\rho$ mass density difference (m/l^3)
$\Delta\rho_s$ mass density difference between fluids (m/l^3)

用語集

$\Delta\rho_s$ mass density difference between objects and fluid (m/l^3)
σ interfacial tension (m/t^2)
σ_s surface tension (m/t^2)
σ_y stress at elastic yield (m/lt^2)
σ_θ thermal gradient ($1/l$)
τ shear or frictional stress (m/lt^2)
τ_f fluid shear stress at surface (m/lt^2)
τ_w wall shear stress (m/lt^2)
τ_y shear stress when $\alpha = \mu_p \sqrt{2}$ (m/lt^2)
ϕ air drag coefficient of particle (dimensionless)
ψ ratio of radial clearance to diameter (dimensionless)
ω angular velocity or rotational speed ($1/t$)
ω_n fundamental natural frequency of wing ($1/t$)
ω_s rotational speed of agitator ($1/t$)
ω_c cyclotron frequency ($1/t$)
ω_v vibrational frequency ($1/t$)
$*$ molecular time derivative ($1/t$)

互いに等しい無次元数

Cauchy = (Mach)²
Colburn = Prandtl Mass Transfer
Cowling = 1/Alfven
Damköhler's Fifth = Reynolds
Eckert = Dulong
Eulerus = Bond
Hedstrom 2 = Bingham
Hooke = (Mach)²
Jeffrey = 1/Stokes
Karman 2 = Alfven
Laval = Crocco
Leroux = Cavitation
Magnetic Mach = Alfven
Newton = Euler
Plasticity = Bingham
Reech = 1/Froude
Sarrau = Mach
Schmidt = Prandtl Mass Transfer
Semenov = 1/Lewis
Sherwood = Nusselt Mass Transfer
Smoluchowski = 1/Knudsen
Thring = Boltzmann

無次元数の表

無次元数

無次元パラメーターが対応する物理現象

AEROELASTICITY
- Aeroelastic
- Hooke
- Mass Ratio
- Reech
- Strouhal

BEARINGS AND LUBRICATION
- Hersey
- Ocvirk
- Reynolds
- Sommerfeld
- Squeeze

BOILING AND BUBBLES
- Bubble Russell
- Bubble Reynolds
- Jakob
- [illegible]

BUOYANCY
- Archimedes
- Buoyancy
- Capillarity Buoyancy
- [illegible]
- Russell

CAPILLARY FLOW
- Blake
- Bond
- Capillarity 1
- Capillarity 2
- Capillarity-Buoyancy
- Capillary
- Deryagin
- Gravity
- Kirpichev Mass Transfer
- Kossovich
- Leverett
- Ohnesorge
- Porous Flow
- [illegible]
- Two Phase Flow
- Two-Phase Porous Flow
- Weber

CAPILLARY JETS
- [illegible]
- Elasticity 1
- [illegible]
- [illegible]-1
- Ohnesorge
- Weissenberg

CAVITATION
- Cavitation
- Thoma

CENTRIFUGAL FORCE
- Centrifuge
- Ekman
- Lagrange 2
- Taylor

CHEMICAL REACTIONS
- Arrhenius
- Damköhler's First
- Damköhler's Second
- Damköhler's Third
- Damköhler's Fourth

COATINGS AND FILMS
- Deryagin
- Goucher
- [illegible] Thickness

COMPRESSIBLE FLOW
- Acceleration
- Crocco
- Dulong
- Fliegner
- Hodgson
- Mach
- Radiation Pressure
- Specific Heat Ratio

CONDENSATION
- Condensation 1
- Condensation 2
- McAdams

CONDUCTION
- Brinkman
- Bulygin
- Damköhler's Fourth
- [illegible]
- [illegible] Heat Transfer
- [illegible] Heat Transfer
- Stefan

CONVECTION
- Buoyancy
- [illegible]
- Grashof
- Marangoni
- Momentum
- Nusselt Heat Transfer
- Peclet Heat Transfer
- [illegible] Heat Transfer
- Rayleigh
- Stanton
- Surface Viscosity

CURVED FLOW
- Centrifuge
- Dean
- Görtler
- Rossby
- Taylor

DIFFUSION
- Damköhler's Second
- Fourier Mass Transfer
- J-Factor Mass Transfer
- Kirpichev Mass Transfer
- Lewis
- Nusselt Mass Transfer
- Peclet Mass Transfer
- Prandtl Mass Transfer
- Treybal

ENERGY
- Arrhenius
- Dulong
- [illegible]

ENTRAINMENT
- Archimedes
- Bagnold
- Blake
- Bubble Russell
- Bubble Reynolds
- Buoyancy
- Froude
- Particle

EVAPORATION
- Evaporation 1
- Evaporation 2
- Evaporation Elasticity
- Gukhman
- Jakob
- Kirpichev Mass Transfer
- Kossovich
- Merkel

EXPLOSIONS
- Explosion
- Semenov

FANS, PUMPS, AND TURBINES
- Cavitation
- Flow
- Lagrange 2
- Power
- Specific Speed
- Thoma

FLUID AND MATERIAL PROPERTY
- [illegible] 2
- Elasticity 2
- Elasticity 3
- Lewis
- Poisson
- Prandtl Mass Transfer
- Specific Heat Ratio

FLUIDIZATION
- Archimedes
- Blake
- Fedorov

GRAVITY
- Bond
- Boussinesq
- Froude
- Galileo
- Goucher
- Gravity
- [illegible]
- Russell
- Stokes
- Two Phase Porous Flow

HEAT TRANSFER
- Biot
- Biot Heat Transfer
- Boltzmann
- Bulygin
- Brinkman
- [illegible]
- Condensation 1
- Condensation 2
- Damköhler's Third
- Damköhler's Fourth
- Evaporation 1
- Evaporation 2
- Evaporation-Elasticity
- Fourier Heat Transfer
- Graetz
- Grashof
- Heat Transfer
- J-Factor Heat Transfer
- [illegible]
- Jakob
- Joule
- Kirpichev Heat Transfer
- Kossovich
- Lewis
- Merkel
- Nusselt Heat Transfer
- Peclet Heat Transfer
- Pomerantsev
- Prandtl Heat Transfer
- Predvoditelev
- Rayleigh
- Stanton
- Stefan

IMMERSED BODIES
- Bagnold
- Biot Heat Transfer
- Bond
- Cavitation
- [illegible]
- Euler
- Froude
- [illegible]
- [illegible]
- Mach
- Mass Ratio
- Newton
- [illegible]
- Reynolds
- [illegible]
- Stokes
- Strouhal
- Thoma

IONIZED GASES
- Debye

MAGNETOHYDRODYNAMICS
- Alfvén
- [illegible]
- Electric Reynolds
- Elsasser
- Hall
- Hartmann
- Joule
- Lundquist
- Lykoudis
- Magneto-Dynamics
- Magnetic Force
- Magnetic Interaction
- Magnetic Prandtl
- Magnetic Pressure
- Magnetic Reynolds

MASS AND MOMENTUM TRANSFER
- Biot Mass Transfer
- Bodenstein
- Damköhler's Second
- Fourier Mass Transfer
- J-Factor Mass Transfer
- Kirpichev Mass Transfer
- Lewis
- Merkel
- Nusselt Mass Transfer
- Peclet Mass Transfer
- Prandtl Mass Transfer

PARTICLE FLOW
- Bagnold
- [illegible]
- [illegible]

その比率が無次元数になる変数

Particle

PIPE FLOW
- Dean
- Fanning
- Karman 1
- Pipeline

PLASTIC AND NON-NEWTONIAN FLOW
- Bingham
- Plasticity
- Ellis
- Hedstrom I
- Truncation
- Viscoelastic

POROUS BODIES
- Blake
- Bond
- Capillarity 1
- Capillarity 2
- Capillary
- Gravity
- Kirpichev Mass Transfer
- Kossovich
- Leverett
- Porous Flow
- [illegible]
- Two Phase Flow
- Two-Phase Porous Flow
- Weber

PRESSURE
- Cavitation
- Darcy
- Euler
- Fanning
- Lagrange
- Magnetic Dynamic
- Magnetic Pressure
- Pipeline
- Poiseuille
- Thoma

PULSATING FLOW
- Hodgson
- Pipeline
- Strouhal
- Taylor

RADIATION
- Bunsen
- Boltzmann
- Bouguer
- Radiation Pressure
- Stefan

SLOSH AND SURFACE WAVES
- Bond
- Boussinesq
- Centrifuge
- Froude
- Galilei
- Ohnesorge
- Russell
- Slosh Time
- Weber

STRESS
- Bingham
- Fanning
- Poisson

- Truncation

STRUCTURES
- Structural Merit

SURFACE TENSION
- Bond
- Capillarity 1
- Capillarity 2
- Capillarity-Buoyancy
- Capillary
- Centrifuge
- Goucher
- Marangoni
- Ohnesorge
- Two-Phase Flow
- Weber

TIME
- Damkohler's First
- Hodgson
- Slosh Time
- Thomson

TWO MEDIUM FLOW
- Archimedes
- Bagnold
- Blake
- Capillarity 1
- Capillarity-Buoyancy
- Capillary
- Gravity
- Leverett
- Russell
- Two Phase Flow
- Two Phase Porous Flow

VELOCITY
- Alfven
- Crocco
- Damkohler's First
- Strouhal
- Thomson

VISCOELASTICS
- Bingham
- Elasticity 1
- Ellis
- Hedstrom I
- Richardson
- Truncation
- Viscoelastic
- Weissenberg

VISCOUS FLOW
- Dorfman
- Darcy
- Fanning
- Froude
- Hodgson
- Karman I
- Lagrange I
- Pipeline
- Poiseuille
- Prandtl Velocity Ratio
- Reynolds
- Stokes
- Taylor
- Truncation

DIFFUSIVITY
- Lewis
- Nusselt Mass Transfer
- Peclet Mass Transfer
- Prandtl Heat Transfer
- Prandtl Mass Transfer
- Rayleigh

ENERGIES
- Arrhenius
- Dalton
- Joule

FORCES
- Aeroelastic
- Archimedes
- Bagnold
- Blake
- Bond
- Boussinesq
- Buoyancy
- Capillarity 1
- Capillary
- Centrifuge
- Ekman
- Elasticity 1
- Euler
- Froude
- Galileo
- Goucher
- Grashof
- Gravity
- Hartmann
- Hersey
- Hooke
- Lagrange 1
- Mach
- Magnetic Force
- Newton
- Ohnesorge
- Poiseuille
- Power
- Prandtl Velocity Ratio
- Rayleigh
- Reynolds
- Richardson
- Rossby
- Russell
- Sommerfeld
- Stokes
- Structural Merit
- Taylor
- Thoma
- Two Phase Flow
- Viscoelastic
- Weber

HEAT AND SPECIFIC HEAT
- Bunsen
- Biot Heat Transfer
- Boltzmann
- Brinkman
- Carnot
- Damkohler's Third
- Damkohler's Fourth
- Graetz
- Kirpichev Heat Transfer
- Kossovich

- Lewis
- Nusselt Heat Transfer
- Peclet Heat Transfer
- Prandtl Heat Transfer
- Rayleigh
- Specific Heat Ratio
- Stanton
- Stefan

LENGTHS
- Debye
- Deryagin
- Knudsen
- Lindner
- Poisson

MAGNETIC FIELDS
- Magnetic Reynolds

MASS AND MOMENTUM
- Biot Mass Transfer
- Bodenstein
- Kirpichev Mass Transfer
- Lewis
- Mass Ratio
- Merkel
- Nusselt Mass Transfer
- Peclet Mass Transfer
- Prandtl Heat Transfer
- Prandtl Mass Transfer
- Structural Merit

PRESSURE
- Cavitation
- Fanning
- Magneto-Dynamic
- Magnetic Pressure
- Pipeline
- Porous Flow
- Radiation Pressure
- Thoma
- Two-Phase Porous Flow

RATES
- Damkohler's First
- Damkohler's Second
- Predvoditelev

STIFFNESS
- Aeroelastic
- Structural Merit

STRESS
- Bingham
- Fanning
- Truncation

TEMPERATURE
- Carnot
- Brinkman

TIME
- Damkohler's First
- Hodgson

VELOCITY
- Alfven
- Cowling
- Crocco
- Mach
- Strouhal

無次元数の表