



Fundamentals of Fluid Flow Formulas

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List of 71 Fundamentals of Fluid Flow Formulas

Fundamentals of Fluid Flow C

Circulation and Vorticity C

1) Area of Curve using Vorticity

fx
$$A = \frac{\Gamma}{\Omega}$$

ex
$$50m^2 = \frac{350m^2/s}{7/s}$$

2) Circulation using Vorticity

fx
$$\Gamma = \Omega \cdot \mathrm{A}$$

ex
$$350\mathrm{m}^2/\mathrm{s}=7/\mathrm{s}\cdot50\mathrm{m}^2$$

3) Vorticity of Fluid Flows

fx
$$\Omega = rac{\Gamma}{A}$$

ex
$$7/s = {350 {
m m}^2/s} {50 {
m m}^2}$$



Open Calculator

Open Calculator

Continuity Equation 🗗

4) Cross Sectional Area at Section 1 for Steady Flow

fx
$$A_{cs} = \frac{Q}{
ho_1 \cdot V_{Negative surges}}$$

ex $16.83333m^2 = \frac{1.01m^3/s}{0.02kg/m^3 \cdot 3m/s}$

5) Cross Sectional Area at Section 2 given Flow at Section 1 for Steady Flow



ex
$$12.625 \text{m}^2 = rac{1.01 \text{m}^3/\text{s}}{0.08 \text{m/s}}$$





7) Discharge through Section for Steady Incompressible Fluid 🕑





11) Velocity at Section 2 given Flow at Section 1 for Steady Flow

fx
$$u_{02} = \frac{Q}{A_{cs} \cdot \rho_2}$$

ex $3.699634 m/s = \frac{1.01 m^3/s}{13 m^2 \cdot 0.021 kg/m^3}$

12) Velocity at Section for Discharge through Section for Steady Incompressible Fluid

fx
$$u_{
m Fluid}=rac{
m Q}{
m A_{cs}}$$
 ex $0.077692 {
m m/s}=rac{1.01 {
m m^3/s}}{13 {
m m^2}}$

Description of the Flow Pattern 🕑

13) Component of Velocity in X Direction using Slope of Streamline

fx
$$\mathbf{u} = \frac{\mathbf{v}}{\tan\left(\frac{\pi}{180} \cdot \theta\right)}$$

ex $8.011511 \text{m/s} = \frac{10 \text{m/s}}{\tan\left(\frac{\pi}{180} \cdot 51.3\right)}$



Open Calculator 🗹

Open Calculator

14) Component of Velocity in Y Direction given Slope of Streamline

$$fx \quad v = u \cdot tan\left(\frac{\pi}{180} \cdot \theta\right)$$

$$ex \quad 9.985632 \text{m/s} = 8 \text{m/s} \cdot tan\left(\frac{\pi}{180} \cdot 51.3\right)$$

$$fx \quad \theta = \arctan\left(\frac{v}{u}\right) \cdot \left(\frac{180}{\pi}\right)$$

$$ex \quad 51.34019 = \arctan\left(\frac{10 \text{m/s}}{8 \text{m/s}}\right) \cdot \left(\frac{180}{\pi}\right)$$

$$ex \quad 51.34019 = \arctan\left(\frac{10 \text{m/s}}{8 \text{m/s}}\right) \cdot \left(\frac{180}{\pi}\right)$$

Streamlines, Equipotential Lines and Flow Net 🕑



fx
$$\mathbf{u} = \mathbf{v} \cdot \Phi$$

Open Calculator

ex
$$8 \mathrm{m/s} = 10 \mathrm{m/s} \cdot 0.8$$

17) Component of Velocity in X Direction using Slope of Streamline

$$f_{\mathbf{X}} \mathbf{u} = \frac{\mathbf{v}}{\tan\left(\frac{\pi}{180} \cdot \theta\right)}$$

$$e_{\mathbf{X}} 8.011511 \text{m/s} = \frac{10 \text{m/s}}{\tan\left(\frac{\pi}{180} \cdot 51.3\right)}$$

$$e_{\mathbf{X}} 8.011511 \text{m/s} = \frac{10 \text{m/s}}{\tan\left(\frac{\pi}{180} \cdot 51.3\right)}$$

$$e_{\mathbf{X}} 8.011511 \text{m/s} = \frac{10 \text{m/s}}{\tan\left(\frac{\pi}{180} \cdot 51.3\right)}$$



7/28



Torque Exerted on a Wheel with Radial Curved Vanes

22) Angular Momentum at Inlet 🕑

fx
$$\mathbf{L} = \left(rac{\mathbf{w}_{\mathrm{f}}\cdot\mathbf{v}_{\mathrm{f}}}{\mathrm{G}}
ight)\cdot\mathbf{r}$$

ex
$$148.32 \mathrm{kg}^* \mathrm{m}^2 \mathrm{/s} = \left(rac{12.36 \mathrm{N} \cdot 40 \mathrm{m/s}}{10}
ight) \cdot 3 \mathrm{m}$$

23) Angular Momentum at Outlet

fx
$$\mathbf{L} = \left(rac{\mathbf{w}_{\mathrm{f}}\cdot\mathbf{v}}{\mathrm{G}}
ight)\cdot\mathbf{r}$$

ex
$$35.93052 \text{kg}^{*}\text{m}^{2}/\text{s} = \left(\frac{12.36 \text{N} \cdot 9.69 \text{m}/\text{s}}{10}\right) \cdot 3 \text{m}$$

24) Angular Velocity for Work Done on Wheel per Second 🕑

$$\begin{split} & \mathbf{fx} \ \omega = \frac{\mathbf{w} \cdot \mathbf{G}}{\mathbf{w}_{f} \cdot (\mathbf{v}_{f} \cdot \mathbf{r} + \mathbf{v} \cdot \mathbf{r}_{O})} \end{split} \tag{Open Calculator Constraints} \\ & \mathbf{ex} \ 13.35424 \mathrm{rad/s} = \frac{3.9 \mathrm{KJ} \cdot 10}{12.36 \mathrm{N} \cdot (40 \mathrm{m/s} \cdot 3 \mathrm{m} + 9.69 \mathrm{m/s} \cdot 12 \mathrm{m})} \end{split}$$



Open Calculator

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25) Efficiency of System
$$\bigcirc$$

 $\eta = \left(1 - \left(\frac{v}{v_f}\right)^2\right)$
ex $0.941315 = \left(1 - \left(\frac{9.69 \text{m/s}}{40 \text{m/s}}\right)^2\right)$
26) Initial Velocity for Work Done if Jet leaves in Motion of Wheel \bigcirc
fx $u = \frac{\left(\frac{P_{dc} \cdot G}{w_f}\right) + (v \cdot v_f)}{v_f}$
ex $54.37042 \text{m/s} = \frac{\left(\frac{2209W \cdot 10}{12.36\text{N}}\right) + (9.69 \text{m/s} \cdot 40 \text{m/s})}{40 \text{m/s}}$
27) Initial Velocity given Power Delivered to Wheel \bigcirc
fx $u = \left(\left(\frac{P_{dc} \cdot G}{w_f \cdot v_f}\right) - (v)\right)$
ex $34.99042 \text{m/s} = \left(\left(\frac{2209W \cdot 10}{12.36\text{N} \cdot 40 \text{m/s}}\right) - (9.69 \text{m/s})\right)$



10/28

28) Initial Velocity when Work Done at Vane Angle is 90 and Velocity is Zero





31) Radius at Inlet for Work Done on Wheel per Second 🕑



32) Radius at Inlet with Known Torque by Fluid 🕑

fx
$$\mathbf{r} = \frac{\left(\frac{\tau \cdot G}{w_{f}}\right) + (\mathbf{v} \cdot \mathbf{r}_{O})}{v_{f}}$$
ex
$$8.813149m = \frac{\left(\frac{292N^{*}m \cdot 10}{12.36N}\right) + (9.69m/s \cdot 12m)}{40m/s}$$

33) Radius at Outlet for Torque Exerted by Fluid

$$f_{X} \mathbf{r}_{O} = \frac{\left(\frac{\mathbf{r} \cdot \mathbf{G}}{\mathbf{w}_{f}}\right) - \left(\mathbf{v}_{f} \cdot \mathbf{r}\right)}{\mathbf{v}}$$

$$e_{X} 11.99649m = \frac{\left(\frac{292N^{*}m \cdot 10}{12.36N}\right) - \left(40m/s \cdot 3m\right)}{9.69m/s}$$
Open Calculator



34) Radius at Outlet for Work Done on Wheel per Second 🕑



35) Speed of Wheel given Tangential Velocity at Inlet Tip of Vane

fx
$$\Omega = rac{\mathrm{v}_{\mathrm{tangential}} \cdot 60}{2 \cdot \pi \cdot \mathrm{r}}$$

ex
$$3.183099 \mathrm{rev/s} = rac{60 \mathrm{m/s} \cdot 60}{2 \cdot \pi \cdot 3 \mathrm{m}}$$

36) Speed of Wheel given Tangential Velocity at Outlet Tip of Vane

fx
$$\Omega = rac{\mathrm{v}_{\mathrm{tangential}} \cdot 60}{2 \cdot \pi \cdot \mathrm{r}_{\mathrm{O}}}$$

ex
$$0.795775 \mathrm{rev/s} = rac{60 \mathrm{m/s} \cdot 60}{2 \cdot \pi \cdot 12 \mathrm{m}}$$

37) Torque Exerted by Fluid C

$$au = \left(rac{\mathrm{w_f}}{\mathrm{G}}
ight) \cdot \left(\mathrm{v_f} \cdot \mathrm{r} + \mathrm{v} \cdot \mathrm{r_O}
ight)$$

$$292.0421 \text{N*m} = \left(\frac{12.36\text{N}}{10}\right) \cdot (40 \text{m/s} \cdot 3\text{m} + 9.69 \text{m/s} \cdot 12\text{m})$$



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Open Calculator

Open Calculator

38) Velocity at Point given Efficiency of System 🕑

$$fx = \sqrt{1 - \eta} \cdot v_{f}$$
Open Calculator (*)
$$v = \sqrt{1 - \eta} \cdot v_{f}$$
Open Calculator (*)
$$17.88854m/s = \sqrt{1 - 0.80} \cdot 40m/s$$
39) Velocity for Work Done if there is no Loss of Energy (*)
$$v_{f} = \sqrt{\left(\frac{w \cdot 2 \cdot G}{w_{f}}\right) + v^{2}}$$
Open Calculator (*)
$$v_{f} = \sqrt{\left(\frac{3.9KJ \cdot 2 \cdot 10}{12.36N}\right) + (9.69m/s)^{2}}$$
40) Velocity given Angular Momentum at Inlet (*)
$$v_{f} = \frac{L \cdot G}{w_{f} \cdot r}$$
Open Calculator (*)
$$v_{f} = \frac{L \cdot G}{w_{f} \cdot r}$$
Open Calculator (*)
$$v_{f} = \frac{250kg^{*}m^{2}/s \cdot 10}{12.36N \cdot 3m}$$
41) Velocity given Angular Momentum at Outlet (*)
$$v = \frac{T_{m} \cdot G}{w_{f} \cdot r}$$
Open Calculator (*)
$$v = \frac{T_{m} \cdot G}{w_{f} \cdot r}$$
Open Calculator (*)
$$v = \frac{10.38296m/s}{w_{f} \cdot r}$$



42) Velocity given Efficiency of System Open Calculator $v_f = \frac{1}{\sqrt{1-n}}$ ex $21.6675 \mathrm{m/s} = \frac{9.69 \mathrm{m/s}}{\sqrt{1-0.80}}$ Radius of the Wheel 43) Radius of Wheel for Tangential Velocity at Inlet Tip of Vane Open Calculator $2 \cdot \pi \cdot \Omega$ ex $7.012873m = \frac{9.69m/s}{2 \cdot \pi \cdot 2.1 rev/s}$ 44) Radius of Wheel for Tangential Velocity at Outlet Tip of Vane V_{tangential} Open Calculator

fx
$$\mathbf{r} = \frac{\underline{2 \cdot \pi \cdot \Omega}}{\underline{60}}$$

ex $4.547284 \mathrm{m} = \frac{60 \mathrm{m/s}}{\underline{2 \cdot \pi \cdot 2.1 \mathrm{rev/s}}}$





45) Radius of Wheel given Angular Momentum at Inlet 🕑



Tangential momentum and Tangential velocity







48) Tangential Velocity at Inlet Tip of Vane \checkmark (vtangential = $\left(\frac{2 \cdot \pi \cdot \Omega}{60}\right) \cdot r$ (vtangential = $\left(\frac{2 \cdot \pi \cdot 2.1 rev/s}{60}\right) \cdot 3m$ (s) 39.58407m/s = $\left(\frac{2 \cdot \pi \cdot 2.1 rev/s}{60}\right) \cdot 3m$ (s) vtangential Velocity at Outlet Tip of Vane \checkmark (vtangential = $\left(\frac{2 \cdot \pi \cdot \Omega}{60}\right) \cdot r$ (s) 39.58407m/s = $\left(\frac{2 \cdot \pi \cdot 2.1 rev/s}{60}\right) \cdot 3m$ (s) 39.58407m/s = $\left(\frac{2 \cdot \pi \cdot 2.1 rev/s}{60}\right) \cdot 3m$

bu) velocity given langential momentum of Fluid Striking vanes at lifet C

fx $u = \frac{T_m \cdot G}{w_f}$ ex $31.14887m/s = \frac{38.5kg^*m/s \cdot 10}{12.36N}$ Open Calculator 🕑

16/28











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54) Velocity at Inlet when Work Done at Vane Angle is 90 and Velocity is Zero

fx
$$v_f = \frac{w \cdot G}{w_f \cdot u}$$

ex $90.15257m/s = \frac{3.9KJ \cdot 10}{12.36N \cdot 35m/s}$
Velocity at Outlet C

$$\label{eq:v} \texttt{fx} \boxed{ v = \frac{\left(\frac{P_{dc} \cdot G}{w_f}\right) - \left(v_f \cdot u\right)}{v_f} } } \qquad \texttt{Open Calculator} \\ \texttt{Open Calcula$$

56) Velocity at Outlet given Torque by Fluid 🕑

$$\mathbf{fx} \mathbf{v} = \frac{\left(\frac{\tau \cdot \mathbf{G}}{\mathbf{w}_{\mathrm{f}}}\right) - (\mathbf{v}_{\mathrm{f}} \cdot \mathbf{r})}{\mathbf{r}_{\mathrm{O}}}$$

ex
$$9.687163 \text{m/s} = rac{\left(rac{292 \text{N}^* \text{m} \cdot 10}{12.36 \text{N}}
ight) - (40 \text{m/s} \cdot 3 \text{m})}{12 \text{m}}$$



57) Velocity at Outlet given Work Done if Jet leaves in Motion of Wheel 🕑



Weight of the Fluid C

59) Weight of Fluid for Work Done if there is no loss of Energy 🕑

fx
$$w_{f} = \frac{w \cdot 2 \cdot G}{v_{f}^{2} - v^{2}}$$

ex $51.78926N = \frac{3.9KJ \cdot 2 \cdot 10}{(40m/s)^{2} - (9.69m/s)^{2}}$





60) Weight of Fluid for Work Done on Wheel per Second 🕑

61) Weight of Fluid given Angular Momentum at Inlet 🚰

fx
$$\mathbf{w}_{\mathrm{f}} = rac{\mathbf{L}\cdot\mathbf{G}}{\mathbf{v}_{\mathrm{f}}\cdot\mathbf{r}}$$
 Open Calculator **C**

$$= 20.83333N = 40m/s \cdot 3m$$

62) Weight of Fluid given Angular Momentum at Outlet 子

63) Weight of Fluid given Mass of Fluid Striking Vane per Second 🕑

fx
$$\mathbf{w}_{\mathrm{f}} = \mathbf{m}_{\mathrm{f}} \cdot \mathbf{G}$$
 Open Calculator \mathbf{C}
ex $9\mathrm{N} = 0.9\mathrm{kg} \cdot 10$





64) Weight of Fluid given Power Delivered to Wheel 🕑

$$\label{eq:wf} \begin{split} & \textbf{W}_f = \frac{P_{dc} \cdot G}{v_f \cdot u + v \cdot v_f} \end{split} \qquad \begin{array}{l} \textbf{Open Calculator C} \\ \\ & \textbf{W}_f = \frac{2209 W \cdot 10}{40 m/s \cdot 35 m/s + 9.69 m/s \cdot 40 m/s} \end{split}$$

65) Weight of Fluid given Tangential Momentum of Fluid Striking Vanes at Inlet

fx
$$w_{\rm f} = rac{{\rm T_m} \cdot {
m G}}{{
m v_f}}$$
 ex $9.625{
m N} = rac{38.5{
m kg}^{
m s}{
m m/s} \cdot 10}{40{
m m/s}}$

66) Weight of Fluid given Work Done if Jet leaves in Motion of Wheel

fx
$$\mathbf{w}_{\mathrm{f}} = rac{\mathbf{w}\cdot\mathbf{G}}{\mathbf{v}_{\mathrm{f}}\cdot\mathbf{u}-\mathbf{v}\cdot\mathbf{v}_{\mathrm{f}}}$$

ex
$$38.52232$$
N = $\frac{3.9$ KJ \cdot 10 $\frac{40 \text{m/s} \cdot 35 \text{m/s} - 9.69 \text{m/s} \cdot 40 \text{m/s}}{40 \text{m/s} \cdot 35 \text{m/s} - 9.69 \text{m/s} \cdot 40 \text{m/s}}$





Open Calculator

67) Weight of Fluid when Work Done at Vane Angle is 90 and Velocity is Zero

$$\label{eq:wf} \mathbf{w}_f = \frac{w \cdot G}{v_f \cdot u} \tag{Open Calculator C}$$

ex
$$27.85714 \mathrm{N} = rac{3.9 \mathrm{KJ} \cdot 10}{40 \mathrm{m/s} \cdot 35 \mathrm{m/s}}$$

Work Done 🗹

68) Work Done for Radial Discharge at Vane Angle is 90 and Velocity is Zero

$$f_{X} W = \left(\frac{W_{f}}{G}\right) \cdot (v_{f} \cdot u)$$

$$e_{X} 1.7304 \text{KJ} = \left(\frac{12.36\text{N}}{10}\right) \cdot (40 \text{m/s} \cdot 35 \text{m/s})$$

69) Work Done if Jet leaves in Direction as that of Motion of Wheel 🕑

$$f_{\mathbf{x}} \mathbf{w} = \left(\frac{\mathbf{w}_{f}}{G}\right) \cdot \left(\mathbf{v}_{f} \cdot \mathbf{u} - \mathbf{v} \cdot \mathbf{v}_{f}\right)$$

$$e_{\mathbf{x}} \mathbf{1.251326KJ} = \left(\frac{12.36N}{10}\right) \cdot \left(40m/s \cdot 35m/s - 9.69m/s \cdot 40m/s\right)$$



70) Work Done if there is no Loss of Energy 🕑

$$f_{\mathbf{X}} \mathbf{w} = \left(\frac{\mathbf{w}_{\mathrm{f}}}{2} \cdot \mathbf{G}\right) \cdot \left(\mathbf{v}_{\mathrm{f}}^{2} - \mathbf{v}^{2}\right)$$

$$e_{\mathbf{X}} 0.093077 \mathrm{KJ} = \left(\frac{12.36\mathrm{N}}{2} \cdot 10\right) \cdot \left(\left(40\mathrm{m/s}\right)^{2} - \left(9.69\mathrm{m/s}\right)^{2}\right)$$

71) Work Done on Wheel per Second 🕑

fx
$$\mathbf{w} = \left(rac{\mathbf{w}_{\mathrm{f}}}{\mathrm{G}}
ight) \cdot \left(\mathbf{v}_{\mathrm{f}}\cdot\mathbf{r} + \mathbf{v}\cdot\mathbf{r}_{\mathrm{O}}
ight) \cdot \omega$$

Open Calculator 🗗

ex

$$3.796547 \mathrm{KJ} = \left(\frac{12.36 \mathrm{N}}{10}\right) \cdot \left(40 \mathrm{m/s} \cdot 3 \mathrm{m} + 9.69 \mathrm{m/s} \cdot 12 \mathrm{m}\right) \cdot 13 \mathrm{rad/s}$$



Variables Used

- **A** Area (Square Meter)
- Acs Cross-Sectional Area (Square Meter)
- G Specific Gravity of Fluid
- L Angular Momentum (Kilogram Square Meter per Second)
- m_f Fluid Mass (Kilogram)
- Pdc Power Delivered (Watt)
- Q Discharge of Fluid (Cubic Meter per Second)
- **r** Radius of wheel (Meter)
- ro Radius of Outlet (Meter)
- T_m Tangential Momentum (Kilogram Meter per Second)
- U Component of Velocity in X Direction (Meter per Second)
- U Initial Velocity (Meter per Second)
- U₀₁ Initial Velocity at Point 1 (Meter per Second)
- U₀₂ Initial Velocity at Point 2 (Meter per Second)
- UFluid Fluid Velocity (Meter per Second)
- V Component of Velocity in Y Direction (Meter per Second)
- V Velocity of Jet (Meter per Second)
- **V**₂ Velocity of Fluid at 2 (Meter per Second)
- **V**f Final Velocity (Meter per Second)
- V_{Negativesurges} Velocity of Fluid at Negative Surges (Meter per Second)
- Vtangential Tangential Velocity (Meter per Second)
- W Work Done (Kilojoule)

- W_f Weight of Fluid (Newton)
- **Circulation** (Square Meter per Second)
- **η** Efficiency of Jet
- $\boldsymbol{\theta}$ Slope of Streamline
- **ρ₁** Density of Liquid 1 (*Kilogram per Cubic Meter*)
- ρ₂ Density of Liquid 2 (Kilogram per Cubic Meter)
- T Torque Exerted on Wheel (Newton Meter)
- Description
 Slope of Equipotential Line
- W Angular Velocity (Radian per Second)
- Ω Vorticity (1 per Second)
- Ω Angular Speed (Revolution per Second)

Constants, Functions, Measurements used

- Constant: pi, 3.14159265358979323846264338327950288 Archimedes' constant
- Function: arctan, arctan(Number) Inverse trigonometric tangent function
- Function: ctan, ctan(Angle) Trigonometric cotangent function
- Function: **sqrt**, sqrt(Number) Square root function
- Function: tan, tan(Angle) Trigonometric tangent function
- Measurement: Length in Meter (m) Length Unit Conversion
- Measurement: Weight in Kilogram (kg) Weight Unit Conversion
- Measurement: Area in Square Meter (m²) Area Unit Conversion
- Measurement: Speed in Meter per Second (m/s) Speed Unit Conversion
- Measurement: Energy in Kilojoule (KJ) Energy Unit Conversion
- Measurement: Power in Watt (W) Power Unit Conversion
- Measurement: Force in Newton (N) Force Unit Conversion
- Measurement: Volumetric Flow Rate in Cubic Meter per Second (m³/s) Volumetric Flow Rate Unit Conversion





- Measurement: Angular Velocity in Radian per Second (rad/s), Revolution per Second (rev/s)
 Angular Velocity Unit Conversion
- Measurement: Density in Kilogram per Cubic Meter (kg/m³) Density Unit Conversion
- Measurement: Torque in Newton Meter (N*m) Torque Unit Conversion
- Measurement: Angular Momentum in Kilogram Square Meter per Second (kg*m²/s)

Angular Momentum Unit Conversion 🖒

- Measurement: Momentum in Kilogram Meter per Second (kg*m/s) Momentum Unit Conversion
- Measurement: Momentum Diffusivity in Square Meter per Second (m²/s)
 Momentum Diffusivity Unit Conversion
- Measurement: Vorticity in 1 per Second (1/s)
 Vorticity Unit Conversion



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