## **KEYWORDS IN TURBOMACHINERY**

Occurrence of keywords in individual articles according to their number in the List of articles. If the article number is in bold, it means that the keyword is already mentioned on the first page of the article (i.e. in the title of the article and chapters and in the description of the problems). So far only article No. 1. - 3., and 14. are indexed.

**Note:** Articles 5-12, and 15-17 have not yet been translated into English.

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Base airfoil	-	-	3. 3.	_	-	-	_	-	-	_	_	-	_	-	_	_	_
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Ammonia	_	-	-	-	-	-	-	-	-	-	-	-	-	14.	-	-	_
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Angle of absolute velocity	1.	-	-	-	-	-	-	-	-	-	-	-	-	_	-	_	_
Angle of attack	_	-	3.	_	-	-	_	-	-	-	_	_	-	_	_	-	_
Angle of deviation	_	-	3.	_	-	-	_	-	-	_	-	_	_	_	_	-	_
Angle of relative velocity	1.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stagger angle	-	-	3.	_	-	-	_	-	-	-	-	-	-	-	-	-	-
Velocity angle	_	-	3.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Energy balance	1.	-	-	-	-	_	_	_	-	_	-	-	-	14.	-	-	_
									В	eari	ng						
Axial bearing	1.	2.	-	_	-	-	_	-	-	_	-	_	_	_	_	-	_
Radial bearing	1.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Blade oscillation	1.		_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Blade root	1.	-	-	-	-	-	-	-	-	-	-	-	_	_	-	_	_

Number of blades		3	 		
Radial blade		3	 		
Rotatable blades		3	 		
Straight blade	1	3	 		
Twisted blades	1	3	 		
Untwisting of blades		3	 		
onewishing or orange		•			
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			Branche		
Axial branches		3	 		
Branches	1	3	 		
Side branches		3	 		
			Calculation		
1D calculation	1		 		
2D calculation	1		 		
3D calculation	1		 		
Calculation of radial			 	14.	
rotor					
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			Camber		
		3	 		
			Cascade		
Blade cascade	1		 		
Confuser cascade		3	 		
Density of profile		3	 		
cascade		٥.			
Diffuser cascade		3	 		
Pressureless cascade		3	 		
Profile cascade	1	3	 		
Width of profile		3 <b>.</b> -	 		
cascade					
			Casing		
Spiral aggings		3	Casing		
Spiral casings	- 2.	3	 		
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			Cavitation		
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			Caaffiniant		
7			Coefficient		
Zweifel coefficient		3	 		

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Adiabatic compression	_	_	_	_	_	_	_	_	_	<u>-</u>	_	_	_	14	_	_
Air compression	_	_	_	_	_	_	_	_	_	_	_	_	_	14	_	_
Helium compression	_	_	_	_	_	_	_	_	_	_	_	_	_	14	_	_
Isoentropic compression	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
Methane compression	-	_	_	-	_	-	-	-	-	-	-	-	_	14	_	_
Multi-stage compression	-	-	-	-	-	-	-	-	_	-	-	-	-	14	-	-
Polytropic compression	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
Reversible polytropic compression	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
Steam compression	-	_	-	-	_	-	_	_	-	-	_	-	-	14	-	_
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Casing cooling	-	_	_	-	_	_	_	-	_	_	-	_	_	14	_	_
Cooling by coolant injection	_	_	_	-	_	_	-	-	_	_	-	_	_	14	_	_
Cooling effectiveness	-	-	-	-	-	-	-	-	-	-	-	-	-	14	_	-
Intercooling	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	_
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Cylindrical coordinate system	1.	2.	-	-	-	-	-	-	-	-	-	-	-		-	-
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Bladeless diffuser	se	e B	lad	ele	ss	sta	tor									
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Meridional direction	1.	2.	_	_	_	_	_	_	-	-	-	_	_			
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Shroud disc	-	-	3.	-	-	-	-	-	-	-	-	-	-		-	-

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Leading edge	1.	_	_	_	-	-	-	_	-	-	-	-	-	-	_	_	_
Trailing edge	1.	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Coanda effect	-	-	3.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Euler efficiency	-	2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydraulic efficiency	1.	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Internal efficiency	1.	2.	-	-	-	-	-	-	-	-	-	-	-	14.	-	-	-
Isentropic efficiency	-	-	-	-	-	-	-	-	-	-	-	-	-	14.	-	-	-
Isothermal efficiency	_	-	-	-	-	-	-	-	-	-	-	_	-	14.	_	-	-
Polytropic efficiency	-	-	-	-	-	-	-	-	-	-	-	-	-	14.	-	-	-
Thermodynamics	1.	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-
efficiency																	
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Head of energy	$\frac{}{1}$ .	_	_	_	_	_	_	_	_	_	<del>5</del>	_		_	_		
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Jet engine	1.	_	3.	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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Bernoulli equation	<del>-</del> 1.								_	<u>-</u>	-						
Euler equation of		2.	_	_	_	_	_	_	_	_		_		_	_	_	_
hydrodynamics		۷.															
Euler turbomachinery	_	2.	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_
equation																	
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Preheat factor	_	_	_	_	_	_	_	_	_	_	_	_	_	14.	_		
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Fatigue failure	$\frac{}{1}$ .									_	_						
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Low pressure for	1. 1.	2.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Low pressure fan			-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Radial fan	1.	_	3.	_	-	-	-	_	-	-	-	-	_	-	-	_	-
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Camber of flow				3.	_					Flo	W						
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Flow separation	_	2.	_	3.	_	_	_	_	_	_	_	_	_	14.	_	_	_
Potential flow	_	2.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

	Fluid	
Working fluid state	1	_
	Force	
Axial force	- 2	_
Force from bodies	- 2	_
Force on blade	- 2	_
Force on pipe	- 2	_
Radial force	- 2	_
Tangential force	- 2	_
Pressure forces	- 2	-
	Gradient	
Pressure gradinet	- 2	
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	Heating	
	14	
	Humidity	
Dalativa hymidity		
Relative humidity	14	_
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1 1 .	h-s chart	
h-s chart	- 2 <b>14.</b>	-
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	<b>Impeller</b>	
	see Rotor	
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	Inducer	
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	Law	
E' 6	Law	
First law of thermodynamics	1	_
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	Line	
Camber line	3	-

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Additional losses	_	-	-	_	-	-	-	_	_	_	-	_	-	14.	-	_	-
Internal losses	1.	-	-	_	-	-	-	_	-	-	-	_	_	_	_	_	_
Loss heat	_	_	-	-	_	-	-	-	-	-	-	_	-	14.	_	_	-
Losses	1.	2.	-	-	_	-	_	-	-	-	-	_	_	14.		_	_
Pressure loss	-	-	-	_	-	-	-	_	-	-	-	_	_	14.		_	_
Reverse flow losses	-	-	-	_	-	-	-	_	_	_	-	_	-	14.	_	_	-
Rotor friction loss	-	_	_	_	_	-	-	_	_	_	_	_	_	14.	-	_	-
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Heat machine	1.	_	-	-	-	-	-	-	-	-	-	_	_	_	_	_	-
Hydraulic machine	1.	2.	-	-	-	-	-	-	-	-	-	_	_	_	_	_	_
Vortex machine	1.	-	_	-	-	-	-	-	-	-	-	_	_	_	_	_	_
Working machine	1.	-	3.	-	-	-	-	-	-	-	-	_	_	_	-	_	_
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change																	
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Blade passage	1.	_	_	_	_	_	-	-	_	_	_	-	-	-	-	-	-
Mean width of blade	-	-	3.	-	-	-	-	-	-	-	-	-	_	-	-	_	-
passage																	
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Internal power	<del>1</del> .	_	_	_	_	_	_	_	_ <u>-</u>	_	_	_	_	_	_	_	_
Nominal power	1.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Optimal power	1.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Power input	1.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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Profile coordinates		-	3.	-	-	-	-	-	-	-	-	-	_	-	-	_	-
Profile cross-section			3.	_	_												
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Feed pump	1.	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-
Circualtion pump	1.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Condensate pump	1.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-
Rotodynamic pump	1.	-	-	_	_	-	-	_	-	_	-	-	-	-	_	-	-
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Mean radius	1	2.							K	adi	us						
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Compression ratio	_	_	_	_	_	_	_	_		_	_	_	_	14.	_	_	
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Droplet shape	_	_	3.	_	_	_	_	_	_	_	_	-	_	-	-	-	_
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									Sn	ubl	ber						
Integral snubber	_	_	3.	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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Blade speed	1.	_	-	-	_	_	_	_	-	_	-	-	-	-	-	_	_
Rotational speed	1.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Specific speed	1.	_	-	-	_	-	-	_	-	_	_	-	_	-	-	_	_

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Steam turbine	1.	_	-	-	_	-	-	-	-	_	-	_	_	_	-	_	_
Water turbine		2.	-	-	_	-	-	-	-	-	-	_	_	_	-	_	_
Wind turbine	1.	_	-	-	_	-	-	-	-	_	-	_	_	_	-	_	_
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Efficiency of turbocompressor	-	_	_	_	_	_	_	_	_	_	_	_	-	14.	_	_	-
Multi-stage turbocompressor	-	-	_	-	_	-	-	-	_	-	-	-	-	14.	-	-	-
Thermodynamics of turbocompressors	-	-	-	-	-	-	-	-	-	-	-	-	-	14.	-	-	-
Turbocompressor blades	-	-	-	-	-	-	-	-	-	-	-	-	-	14.	-	-	-
Turbocompressors cooling	-	-	-	-	-	-	-	-	-	-	-	-	-	14.	-	-	-
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Multi-stage turbomachine	1.	_	_	_	_	_	_	-	_	_	_	-	_	_	_	-	_
Radial turbomachine	1.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Tangential turbomachine	1.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Energy balance of	1. 1.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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Absolute velocity		2.		_	_	-	-	_	-	_	_	-	-	-	-	-	-
Circulation of velocity	-	2.		-	_	-	-	-	-	_	_	_	-	-	-	-	-
Mean aerodynamic velocity	-	2.	3.	-	-	-	-	-	-	_	-	-	-	_	-	-	_
Mean velocity	1.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Relative velocity		2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Velocity triangle	1.	2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Control volume	_	2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Euler work	_	2.	-	-	-	-	-	-	-	-	-	-	-	14.	-	-	-
Ideal internal work	1.	-	-	-	-	-	-	-	-	-	-	-	-	_	-	_	-
Internal work	1.	2.	_	_	_	_	_	_	_	_	_	_	_	14.	_	_	_