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NOMENCLATURE

B	width of the bearing
c	radial clearance
D	diameter of the bearing
e	eccentricity
F	dimensionless oil-film force
H	dimensionless oil film thickness
h	maximum depth
ht	oil film thickness
l	side length
m	circumferential number
n	axial number
R	radius
r	radius
s	area ratio
P	dimensionless pressure
p	oil film pressure, N. m-2
v	velocity, m. s-1
W	dimensionless load-carrying capacity

Greek symbols

α	pad angle
β	initial position angle
ε	eccentricity ratio
λ	dimensionless axial coordinate
ζ	axial groove width angle
θ	offset angle
μ	oil film dynamic viscosity
ρ	oil film density, kg. m-3
ϕ	oil film position from the negative direction of Y axis
φ	oil film position from offset line
ω	angular speed of the journal, rad.s-1
ψ	clearance ratio
Ω	oil film region

Subscripts

b	bearing
c	cavitation
d	dimple
i	bearing pad number
n	normal vector
0	atmospheric