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List of Symbols

a	Exponent of mean velocity profile
f	Natural frequency of the structure
M_a	Base bending moment
F_z	Design peak ESWL
$\bar{V}_{z,d}$	Design hourly mean wind speed
G	Gust factor
β	Damping coefficient
β	Mode shape index
U^*	Reduced wind velocity
H	Height of the building
B	Width of the building
D	Depth of the building
ζ_s	Structural damping ratio
ζ_a	Aerodynamic damping ratio
U_H	Mean velocity of approaching wind at the top of the building
I_H	Turbulence intensity
g_R	Peak factor for resonant response
g_B	Background peak factor
V_b	Basic wind speed
E	Modulus of elasticity
ν	Poisson's ratio

Abbreviations

3D	Three dimensional
AIJ	Architectural Institute of Japan
AS	Australian Standards
ASCE	American Society of Civil Engineer
CFD	Computational Fluid Dynamics
CTBUH	Council of Tall Buildings and Urban Habitat
ESWL	Equivalent Static Wind Load
GL	Gust Loading Factor
HAR	Height Aspect Ratio
ICS	Integrated Control System
IS	Indian Standards
ISO	International Organization for Standardization
KBC	Korean Building Code
MWFRS	Main Wind Force Resisting Systems
NBC	National Building Code
NBCC	National Building Code of Canada
NZS	New Zealand Standards
PAR	Plan Aspect Ratio
RMS	Root Mean Square
TLD	Tuned Liquid Damper
TMD	Tuned Mass Dampers