



$$G = 1 + g_{f}r_{\sqrt{B(1+\phi)^{2} + \left(\frac{SE}{\beta}\right)}}$$

Recommendations
Cyclone turbulence spectrum
Higher TC for turbulence intensity
Second order effects
Wind loads on antennae





DYNAMIC LOADS AND RESPONSE OF STRUCTURES UNDER NATURAL WIND



CONTRIBUTIONS TO CYCLONE DAMAGE MITGATION



FULL-SCALE MEASUREMENT OF PRESSURES ON A LOW-RISE SPACE GRID ROOF

- Wind and pressure data
- Statistical and spectral analyses
- Peak pressure coefficients



IN-SERVICE WIND INDUCED FATIGUE EVALUATION



AN INNOVATIVE BIMODAL FATIGUE LOAD SPECTRUM

BASED ON RAINFLOW COUNTING OF STRESS CYCLES

INVESTIGATIONS ON DYNAMIC RESPONSE OF A 50M TALL GUYED MAST UNDER WIND LOADING (GAP)



TRANSIENT DYNAMIC ANALYSIS OF MOBILE LAUNCH PAD

HEAVILY STIFENED STEEL STRUCTURE STATIC AND DYNAMIC DESIGN FOR

SELF WEIGHT WIND LOADS PROPULSION LOADS ACOUSTIC PRESSURE LOADS DIFFERENTIAL SOLAR HEATING THERMAL LOADS JET PRESSURE LOADS





ANALYSIS, DESIGN, AND FIELD TESTING OF TOWER SUPPORTING WIND TURBINES

- Dynamic response measurement under operating conditions
- Statistical, spectral and cycle counting analyses
- Fatigue damage evaluation



> PUBLICATIONS

Papers

International Journals National Journals International Conferences National Conferences Technical Reports

Number

- : 5 +1 (4 under review)
- :1
- : 4
- : 12
- : 25

Life member of 5 Professional societies and member of 3 BIS committees

> SERVICE TO INDUSTRY

• Consultancy projects : 35

(M/s SUZLON, IGCAR, VICTORY, POWERGRID, MECON, SANGEETH......)



HONOURS AND AWARDS

- Certificate of Appreciation Engineering Technology Prize, CSIR 1999 (Engg.software Development)
- Certificate of Appreciation CSIR Shield for Engineering Technology, (Wind Engineering), 2000
- A.S. Arya-UOR Disaster Prevention Award, University of Roorkee, 2000(Cyclone disaster)
- o Dr. Jai Krishna Medal IE (India), 2001
- Certificate of merit Dr.Ramaiah Prize , 2003
- Certificate of best technical paper- Dr.Ramaiah Prize, 2004
- ISWE best paper award 2004
- Ph.D degree at IIT, Madras , July 2005 (work done 1997-2004)
- FUTURE PLAN OF WORK
- Field Measurement of loads and responses of lattice and tubular structures
- Development of low cost wind turbine 500kw support tower