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NOMENCLATURE AND ABBREVIATIONS

$V_{as}, V_{bs}, V_{cs} ; V_{ar}, V_{br}, V_{cr}$ Stator voltages and rotor voltages in abc axis

$i_{as}, i_{bs}, i_{cs} ; i_{ar}, i_{br}, i_{cr}$	Stator currents and rotor currents in abc axis
$\Psi_{as}, \Psi_{bs}, \Psi_{cs} ; \Psi_{ar}, \Psi_{br}, \Psi_{cr}$	Flux linkages of stator and rotor in abc axis
$i_{\alpha s}, i_{\beta s}, i_{\alpha r}, i_{\beta r}$	Stator currents and rotor currents in $\alpha\beta$ axis
$V_{\alpha s}, V_{\beta s}, V_{\alpha r}, V_{\beta r}$	Voltages w.r.t stator and rotor in $\alpha\beta$ axis
$i_{ds}, i_{qs}, i_{dr}, i_{qr}$	Currents w.r.t stator and rotor in dq axis
$V_{ds}, V_{qs}, V_{dr}, V_{qr}$	Voltages w.r.t stator and rotor in dq axis
R_s, R_r	Stator resistance and rotor resistance
L_s, L_r, L_m	Inductances w.r.t stator, rotor and magnetization
$L_{\sigma s}, L_{\sigma r}$	Leakage inductances of stator and rotor
ω_s, ω_r	Angular frequency of stator and angular frequency of rotor
ω_m, Ω_m	Electrical and mechanical angular frequencies
p	Pole pairs
σ	Leakage factor
WECS	Wind energy conversion system
WPGS	Wind power generation system
DFIG	Doubly fed induction generator
SRRF	Synchronous rotating reference frame
RRF	Rotor reference frame
SRF	Stator reference frame
IG	Induction generator
SC	Squirrel cage
WF	Wound field
DF	Doubly fed
SG	Synchronous generator
PM	Permanent magnet
TIVS	Time invariant system
TVS	Time variant system
VC	Vector control
BEMF	Back electromotive force
DSPs	Digital signal processor
FPGAs	Field programmable gate arrays
TF	Transfer function