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(IEC 61400-21 :2008 , Wind turbines —
Part 21 : Measurement and assessment of power quality characteristics
of grid connected wind turbines , I DT)



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5 3

3 6

$$= (X \ R)$$

X
R

3 7

3 8

3 9

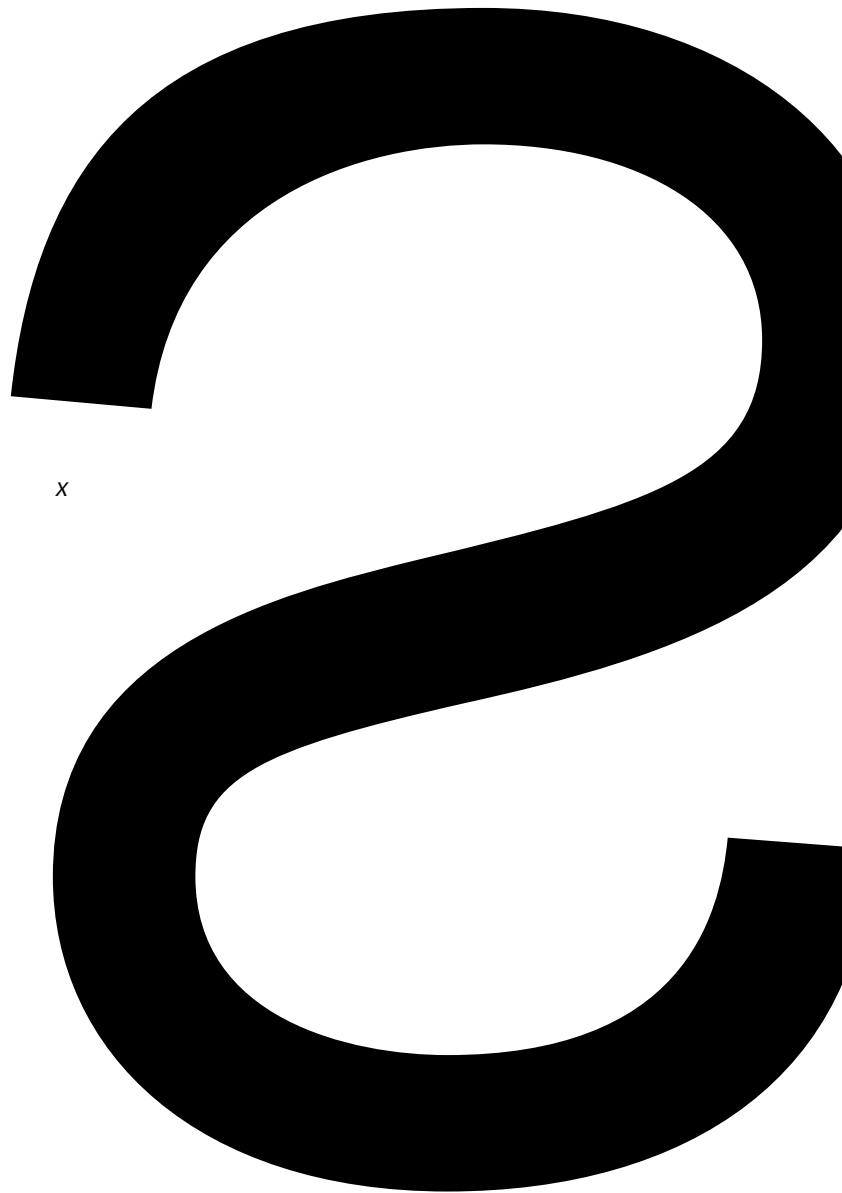
1 3 0

11 3

12 3

$$S = \sqrt{\quad}$$

E i
f
f i i
f
f
f i i
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R
S
S
S



U

U

U

v

v

v_i

i

w_i

i

X

Z

Z

263

v

c v

Q

$$F(v) = \frac{1}{v} - \frac{1}{v^2}$$

6 9

7

1 7

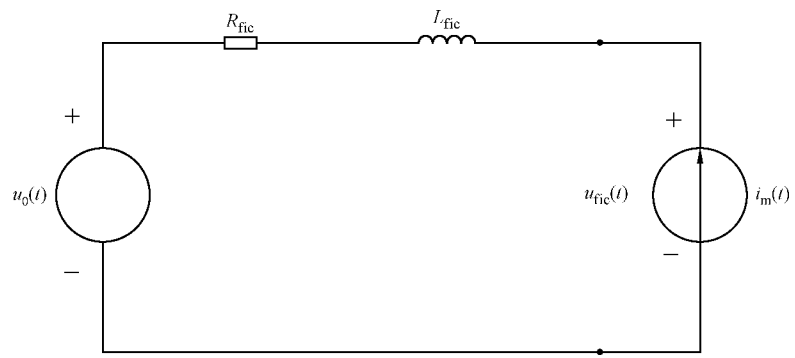
1 7

1

2

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2



4

u t
 i t i t

R L

u t

N_i i
 N
 v

f_i f_i

$$W_i = \frac{f_i}{f_i} \quad c \quad v$$

$$P(c, x) = \frac{\sum_{i=1}^N W_i \times N_{icx}}{\sum_{i=1}^N W_i \times N_i}$$

N_{icx} i
 N

x

$P(c, x)$

1

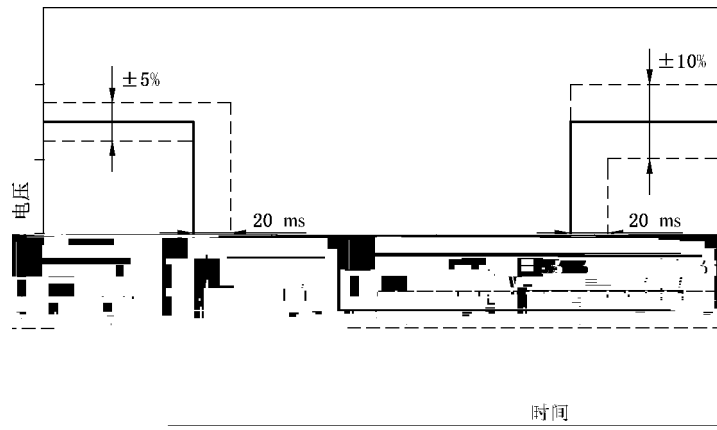
2

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4

7 4



6

P *P*

P

7 6

1 7 6

P

P

P

7 6 3

7 7

1 7 7

2 7 7

$$P = P = c (v) \times \frac{S}{S}$$

c v

v

S

S

k

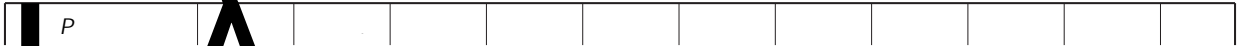
1
2

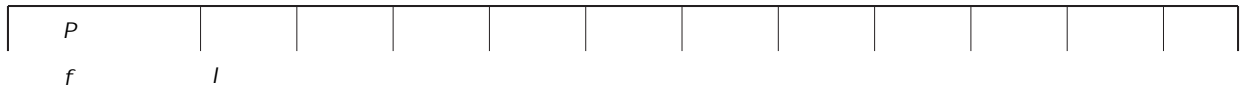
3 8

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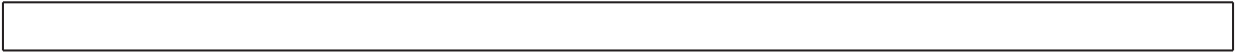
	N			
	N			
	k			
	k			

^p b λ “





4



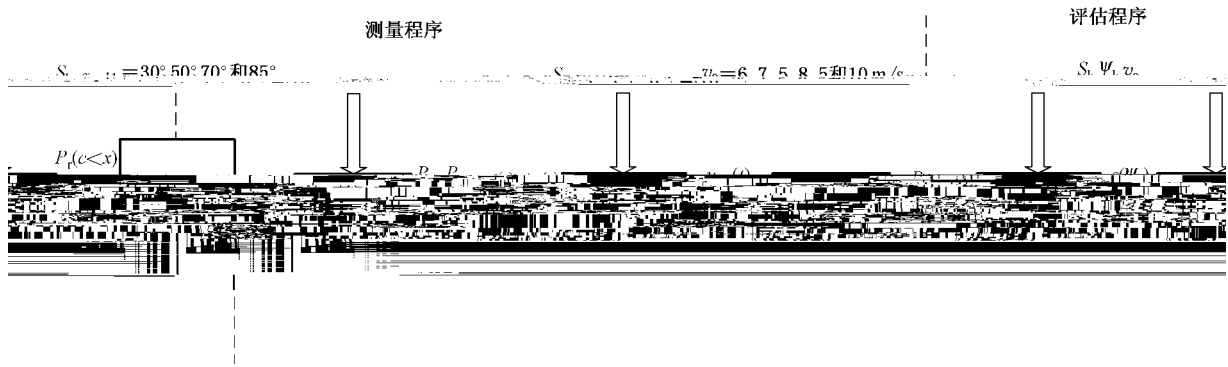
P *P*

P

5 3

8

1



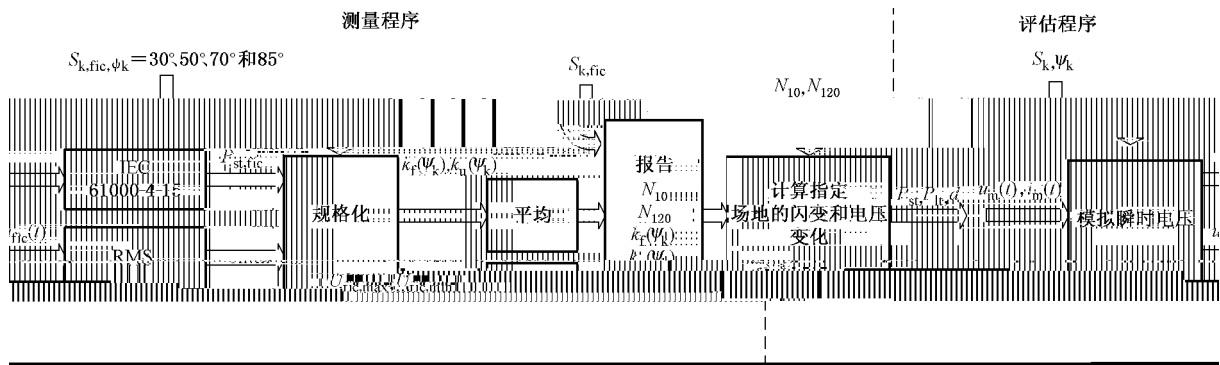
1

u t i t
S

u t
u t

P

P



2

u t i t
S

u t
u t

P
U
U
P

TM

TM

2

	W_i	W_i	W_i	W_i

3

V				
$\sum_{i=1}^N W_i \times N_i$				

P_{TM} C C $TMTM$ C TM TM
 TM C TM TM

4

		<i>P c x</i>	<i>P c x</i>	<i>P c x</i>	<i>P c x</i>
1	5 900			99 0 00	
	5 888		299 0 0		

c v

5

<i>v</i>				

!

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4

1 4

P

P

S

P

S

c

$$P = c \left(\frac{S}{S} \right) \times \frac{S}{S}$$

S

c

$$c \left(\frac{S}{S} \right) = P \times \frac{S}{S}$$

2 4

F

k

$$d = k \left(\frac{S}{S} \right) \times \frac{S}{S} \times$$

d

d

t

$$t = \dots \times d$$

P

$$P = \left(\frac{t}{T} \right)$$

ú Kl T

≠ 2 2 2 1/0 03 0

$$k () = \sqrt{\quad} \times \frac{U}{U} \times \frac{S}{S}$$

U
U

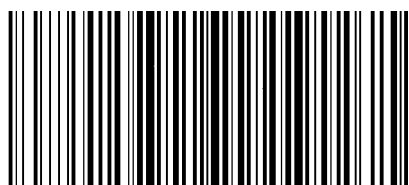
u t
u t

$$u = \sqrt{-(u + u)}$$

/ / — 2 2 2 1 0 03 10 624 2 00

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