



Computers and Structures International Journal of
 Space Structure Construction and Building Materials
 Mechanics of Structures and Machines

29

1 1 3 1
 1 136
 50 47 SCI EI 7 ISTP
 213 , 25



(The HongKong polytechnic University)

1 1 1
 1 1 1
 2 2 5
 Construction and Building Materials Journal of
 Contractional Steel Research
 FRP 46 , SCI 4 EI 12 ISTP 1
 7 1
 1 1 FRP

RC



1982 1
 1986 9



%

'

' \$

9=

&

%



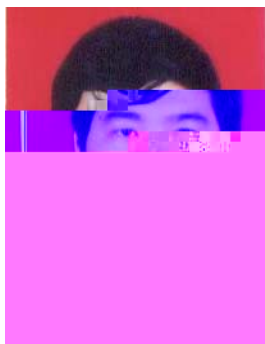
%-,)

%-, ,

'

&\$

' \$ G7= (9= , >ci f ba`
cZ W] bX 9b[] bYYf] b[abX =bXi ghf] a` AYfcXybaa] Wg Ahacgd\Yf] W
9bj] fcbaYbh >ci f ba` cZ 9bj] fcbaYbha` Maba[YaYbh



30

400

40

EI

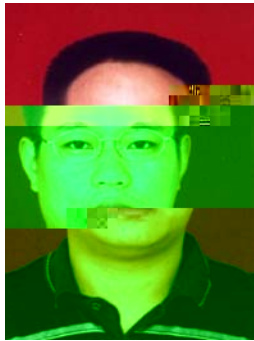
8



1

2

&\$\$,



" " " "

&\$\$* &\$\$+

&\$\$-

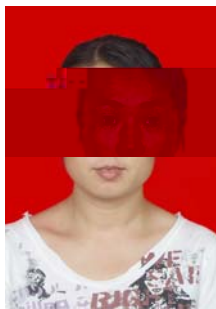


Gci h\aadhcb

Ub]j Yfg] hy cZ
fIP\8Ł
PYbbgy`j ab] a GhahY Ub]j Yfg] hyŁ
' \$
G7=

) 9= %\$ *

: FP %&)



8 3 1 1 3



2002
2005
2009

1 1 1

EI 3 1 ISTP 6 RC



2008

1
Journal of Constructional Steel Research Advances in
Structural Engineering Steel and Composite Structure
7 SCI 3
EI 7



2009

1 1
Journal of Engineering Mechanics, ASCE 9
SCI 1 EI 7



2002
2006 2009

1 1 1
1 1