



2018 12 ! 10 "
43 \$%&# 324

SHANGHAI INSTITUTE OF TECHNOLOGY NEWS

!" _!"B> | v ! } JK r% ; ^ 2 L
^ %6 & ~q P 20181D M;C# NO T P m^`
B>. _ _• 2 v ! n a QR b ST no b ^ 2
o " ybK w#"] #/~) U"} ' . _ D2 /
34 \$%& Lb U B> ' ' &; VW 5% H X/q Y
() p *+ PVD (/ _• ; Z 5^_9 [b]
r u 01 . _ _• 2 v \ ;]^ I _ ;a ^ 5 %
! Y B> n 2,34- m _• Qb ; 7 U[I cdX
567 I] # 89& Lb ae\$%_• a QR b
U B> n ::<2= . _ c[qi Aef 2> . _ v
_• 2 v ! Y R 2> . ! 9 ?@A d' . g] # p
_ v ! 9 ?@A A 20181 q 0 ^ 0 hijkl q ^
B "] # U C=C I u DE no <`P b\$ 02 mn
F s G Y. _ 2 v ! Y `a P mc[op "# 4 q
@H" y no "] #/~ o7 U] # ^ 2 `a u 9
34 \$% b I YF. _ v [| DQR "m. r Q] #
! \ DR 3> A C < P st E 0 no A
B> | . _ _• 2 , -\$%&

!" 12 5! # IJ"fgf hijk0 !" '()' *+& #7%89: hijk &'>? A @S^_ v" 1 "ABU ^`aH <P
 \$%&(')*+,-. 1CDlmn() opY 11 30! 67 "89 # : B "0# ^_lmnop MNO AB 89 b CD ; b x \$ \W ac \VW~
 /01234"456# Z;qr7st[umn ; 9 < B101L =>?@ qr Y stuvw UVW ED I FD b? G "• H •/~/ de) f \Wx g
 7%89: ;\$%9:< ()vwxyz{IJ ; AB 7b CDEFG \ v XY^_ b0 xyzS < IJ @KL 89 " IJ Gh /VW v Xno YR
 =>?@ A |/}-~/RS/~• H B> IJCKL %1 4 ^ A MLCN B OP 89 b C ? G "g ijk T^ b "I
 4B<=>CDE !" bc[#\$ " %& %1 ;B> I89: %9 89{|} B> no QR "~ tx /E STU m# nop f q l sT ;
 BFGHIJ "KLE0 '()* "+,&-) . A : MNOPQR # ST VW~• b ! " "# V VA 5 %r%\$ a ;i , 7 m
 #MNO*+,.-/ / 4 012 MNO# UVW v XY ZUVW8 W\$% /~ & b () " * efgsT I 4S ^ t " um # # p pq 0
)PQRS A TUV\$% \$% 34 b*+, -PQ 9Y^_ [0 \] #UVW * U +, V - Y. k / "0 TUVW v X YWX "YZ ^ ^ v b wp 0 x " y R
 WXYZ[\]01^4 ./()RSQ 5 E23 A v XY^_ B abcd A 123 @45678 "9 Z B C # [o b01 CD 0 x z{|} A
 1_a9:bc[de !"#\$% & #7%9: efg ?@ " ~ : 89 ;< k b K = E IJ ^_ \] ' ^ _ K

,7'(89 ::< &~ M0 x . /~ R %^ v vb
Q K bZ U C #b I b G D n K1 " @4 v " ~•9 4b
o " ' Mac F C #0 x bI J k " 9U v Yf " ~• H AU]
} { 6v H B> I %z CY v - w v ~^ v c 4 b " Y •
H B> Is G | x ./% 1 4 ;] X y { }K f G< " }K
B> Is G %1 4? } b U ~• f V A] Ws 9 C k Q
O 9 B> E 0 x # 9 4 Y I " n c' M] c E 0 x b ~•
, bP 11 18! @ E 0 k , R Y". Y# 9 4 ".
E UG < u } A ! [A b ^ k b
U B 5 "p "a b } B P ~ 1 b , R / Z R " }E
e _ < i] c O x 0 x b) I ~•, RA
b " h i [u ML - I YA6] # \$ k " C *
. ; n 0^ v b~ i X A Ob /"um
I h i # " ` &4 ~• b , R "N A \$ - w [
9 4? G" 9 Wb V "8
n @ UG <# A
ef , b "] # m R p n 0
. ^ v "140p 0 xFG] # #
Z 9 4b 9 , A 2= 0 L E

```

#%&(')+')
./0123456789:
  0#U D $r o lst 3
%"G R PIJ 7 m89 ;# n 8
  9 0 ^ 89 b N E 89 &h "g
  9 E t kb { 1;{ '_ ;{ ^
  G Olms G UKA
  1.7 m89 '( H '^_ )
  m U u S u { A st 3 %} >
  3 ./ m: ()b [ [ = H A0
  # 4 RT NJ 7% 1 K ^ t 7 m
  YZ mn 9 ; W5m ( ) ~?
  st() Y b ^_lmno ./
  U u A * B ? 6n " { E I b
  m7 ./% 1 4; ^_lms G
  s 0- J ^ t * s; ^_lms
  G s 0- J d t % 1 4; ^_l
  ms G s 0- J } 6. ;7% s
  t ./Y; ^_lmno c 7
  L Y; ^_lm + - ^_no 4
  R#7 m^ t , { 1 # / "
  7%9# 8 ? ( " & ' l b s
  G ; s 0./#^ t * ( 7
  %z CY% st ./Y ; s+
  a ; # $ I ? p 0 L R Y Z Wu
  p M F 0 L(R PQ " ~ ^_
  m- J ./b m: ) * Y R E m
  . 3 J A
  2.0 ^ 8 b # n 5 9 " ^_
  k x a k t U A 0# + z P Q
  0 ^ o K# # n U H o b ^
  _lm G O U O A 0# J K e -
  # $ I ? p 0 L no "# $ I ? p
  0 L lm^st/ O F O L ^_
  lmno 4 K K " H n v 3
  f % ^ _lm G 0 . / " H n 2
  u { s 0 E O l ^_ , 1 " > 3 M
  m ^ _lm^ U n P n 5 ; m n
  G O Y P A en c 0# 2 3 s
  t K ' ^ 2; s 0 4 ( D • U ^
  _lm Y b ( * 2 l ) f v w "
  0 0 \ 4 * f % ^ st u } 5 m
  4 • X e - X b U ^ _lm Y 6 '
  ^ A 0 # p 0 ^ st + z / # #
  n f q s T U 5 6 Y I K f % 7
  8 " T: m n 9 K ( ) / s 0 )
  * S u " I J E H n ; H V ; H : b
  ^_lms G ` K A
  3 ^ t g 4 ? b P Q " ^_l
  m q Y i %; q A ^ t g 4 ) >
  3 ./ a ^ & b c [ . / A 0
  # 7 m ? ^ t C D c + " *
  Y W; * (); * S ^ ~ H
  n r Q ^ _lmno Y R E k
  be - / s A 0# 7 mu ) ] !
  Y y U 9: ( lm^ _ ; # 8
  ( ^ _lm Y A # 7 % 9: e f g
  n < f ? @ & ^ _lm - J
  ^ t * s; ^ _lm - J d t %
  1 4 9 1 4 5 " / P 0 x [ S
  ~ v X ! J # ^ _ / P { # U v X
  0 V Y _ 0 x [ f T ^ / P {

```

```

# a x 3 v S T J K lm^
R AB > ls %? . ;] # N 7%
  89# 8 g = n < " f kB
  y ? @ ^ _lmno ./ P Q 4
  5" @ # $ I ? p 0 L st v 2
  ^ _lm jEf G b 1 " () 2
  () U > ? P @ Y b ^ _lm .
  / ( I A # 8 v w x n < [ , 0
  # ^ _lm { [ ml " G [ m
  k A # ^ t f () + - ^ _ ^
  " f () 0 L V 2 d t - J
  ./ 34 P Q ^ _lm - J .
  / b m: ' ' A
  4 p F Y Z A ( ) B 6 m
  R A B E A q Y Y Z b H R m
  / ) 3 % ./ t X & ' b q C A
  @ # 7 m 1 K Y W 6 " % z C
  Y % st ./ Y ; s+ a ; #
  $ I ? p 0 L R ^ _lm ? [ P
  Q Y Z u ^ _lm - J } 6 . g
  9 E { \ D 4 u D " b g u E I
  & ) * v b P U = F " ^ v ;
  G D P Q . / ( ) I W H d
  t A p M F 0 L 7 m , u ^ _l
  lmno ./ V ) ./ c - " /
  O T ./ n Y W ; n () I c U
  D • ^ _ ) * b d t l r Q .
  / " 9 ~ ^ _lm ) * b q Y C
  Y & O L 7 a L 9: ; L 8 "
  * . + - ^ _ ( h 0 " ~ ^ _no I ) E J U , R A 0# "
  u ^ _lm ) * R S / - c E K
  5 R = y V ) E 20181 • M F
  0 L 1 D / | t - L A
  5 . m E s t Z R # / " M ) -
  J + z X C A m E s t ) * ^
  _lm b q Y ? U A 20181 0 #
  N f O v > { ^ _lm + - ^ _ " q [ ) M E + - ./ j g R
  E { Y M F 0 L A @ e ' _ v " P
  X P b s t \ ' R " W ) v ^
  _lm + - ~ " z { G e [ +
  z f & K ! Z ) + - - A " Y ~
  Q K b ) * ^ _lmno Q { E
  k b q C A
  ; $ = > ? ) @ A B C )
  ./ 0 D 3 D E F G H 7 I J
  0 # 7 m 4 ( ) m n ( )
  ^ _lm - J I J " () & 2
  ] # } 0 { % / 0 h i j z U
  { % " h > . k [ u ^ _lm n
  o ./ / 0 # b } 0 { % l P s
  t 0 h i j N 5 9 Y X "
  () () U > ? P @ Y b ^ _lm
  no - J ( I " ) y u " { , %
  r Q ^ _lm / Q ( & ' A
  1 . P Q ( ) U > ? P @ Y b B
  P ^ _lm ( I A 0 # 7 mu E
  E K " h > U V E U > ? P @ Y b
  ^ _lm ( I A U > ? P @ Y R }
  d ^ _lm { S $ i ; S % i
  # # $ I ? p ( * R lm . / T

```

```

) s 1 ; ^ Z v " ? } [ # # $
  I ? p ( * R lm . / / B > P
  s _ * E 0 b U } 0 2 e 0 ^ 2
  3 f ; % 2 - ; ^ _ 2 k Y R 5 9
  Y X " U V 0 # ; 0 ^ f ; % ; ^ _
  Z v b l J j = " W u P n U B P
  E 23 X Y Y b lm @ A Y Z @ "
  q P 0 # ) 6 l ! 2 V u b
  m ^ 0 lm . / b a k Z @ ; [
  V Z @ ; z j Z @ A ~ e " @ ^ _l
  lm ) * ^ _ v " p F s p %
  st \ l c m n U > ? P @ Y b
  lm ( I " @ j @ N m 0 h i j
  , 1 b . 6 " ] ^ _ ; 9 ( b
  , h o x Q lm . / " H ^ _ l
  - G m x I R ; G m B P Y ) ; G
  m ` a a Y A
  2.4 R I J 5 n U B P + 3 Y
  b 0 V - J ^ _ A 0 # ^ _lm
  no " I c 5 9 0 ^ f % & ' ; 5
  9 0 x } 9 / j , ; 5 9 0 #
  lm b lm . / A K ) & e -
  # $ I ? p 0 L u O ^ _no a
  / s A / ~ B > l e - # $ I
  ? p 0 L " 0 # # $ I ? p ( *
  0 ^ * l b m 7 ( * ^ & 4 c
  [ L / s A @ ./ P Q v " # $
  I ? p 0 L 4 c Z U E 3 Z U #
  $ I ? p ^ _Y l ~ v X ! J # ^
  _no A ~ v X ! J # ^ _v E
  X * b 34 ; d c c . v X d
  x 0 # ^ t ; p q 0 L s t R #
  # n f q T ^ ". [ J ~ t k A M
  } & 0 ^ a ; P k 0 1 m n 7
  b C D E I J f G ^ _ A 7 b C
  D E & / " 0 # 5 9 P s t 0
  ^ a ; l f % 23 " u c u 7 b
  e a 2 9 [ | D ~ lm ^ b s
  0 # $ " o E ~ v W v X # ^ _ "
  J K 0 # D 0 . _ ; C = C l ; x
  g R a ; 0 ^ " A B U 3 x $ Y ;
  U ` f x $ Y J V W n : Y J V W
  ~ * Y R # $ # p m q 0 L L
  8 ; U ( s T 0 x H n T ^ "
  R B > l m q , / b ^ t l f
  q # / T ^ " P b E 7 b C D E
  I J Q s 2 Q ^ Q 4 g . / A
  N } h C < ` P s _ * 0 h i j
  j I J } 9 / j ^ _ A 0 # " w
  v X 23 S 4 ? p u D ] l ^ _a & ' cd " @ } 9 / j ^ _a
  no v ; q U P s _ * 0 h Y j
  [ , " o E ~ v X i F _ * # v
  X F _ * # U K g K _ Y j G n
  # ] l ' O ; K N q R G
  D # D S # R ^ _ V K _ *
  / b ^ 0 # : l v X 0 b ! " "
  u P m F G X b _ * l b l l G
  , = C T B 0 x " ij 0 x $ =
  ^ 0 _ * a . / M I m P m b
  G D / j A p E ? * [ U W u L
  % 34 n 6 a [ U 2 B C E G

```



| " i b S b \ ((` 0b DR "RmQRb ST"; 9
 _] R B P E 3 9 \ N m <^ b9 U WT R V3 WW2
 A] m9 ~ K p C v x b c Y " X i b Y Z K Y "] X R
 "2 ' \ P 1 A b n 0) * Y EB PE A
 : X b E 0 x , U + c "] K JK f E 0 x , " 4 b
 , - E / % b . / " 0 i # Z Z R [P + G A V W s t b o \ b!
 S 4 , b \ ' p p b 0 Y] ! 2 ^] b _ ` o a n P b Rm ' b . B" 89 b
 Oc 1 n b i 2 H K @ 3 0 8 Z R \ • E 0 ^ b b c d () q - G Z ` * " P * (/
 b 4 " 5 6 7 - K 8 = os t c \ _ 0 "] ! @ e B P E b 8 0 + G Z N E A
 9 b : ; " <= N > 9 " @ I . k K Y * , " B P E
 ! ? B @ @ A A B 4 A Q) C *] b - R o l n 0 K Y f *
 N 1 F / " C c b ^ % D - 0 E) " X " i 2 q - F G G) " & V * (5 4 5 b] V o
 b A P K b R E 0 "] { H m I n K Y ~ C . Z c "
 . < & I " J J " s R E N) E O x , + U { ~ 0 w Y b K /
 v b K " M) K f f R m L M b W W / / b ` /) t \$
 c f A 4 b 6 ? r A] ! I * (9 E) / B P E b 9 O " m
 P "] y R E B P E b N m 4 " m 1 m 2 A
 & K w 9 " ! R ! 4 b] y B P E b ! = h mm'
 } K p E 0 x E + O] M b \ " \ 3 0 K i 0 K > 4 a b]
 b x , k P P P] ` X R m g + y z b E W W V { | "
 7 " (e 1 c

, } Av c " R X } y \$ K e ` R; 9 < " {
 q ^ b } \ J C ~ C ^ " • 8 9 " > & : c @ A i ! R
 & M B P E b i E N b K " f E Z) b ; < I = > ? " @
 ! " P } j m K " # b i i b " * ' ! " j A { B C D
 b! K E A
 R m ' b . B" 89 b
 () q - G Z ` * " P * (/ B P E b 8 0 + G Z N E A
 I . k K Y * , " B P E / b I J K " L 9 4 3 ; M 3 ;
 *] b - R o l n 0 K Y f * e 3 b / a @ I J K B " 9
) " & V * (5 4 5 b] V o N 3 b n : & 4 K " V z
 I n K Y ~ C . Z c " E A c + 1 A " K 2 O I E K P
 E O x , + U { ~ 0 w Y b K / K b + Q < e R F b S = u
 W W / / b ` /) t \$ @ & " 3 b " % b x S A T 0
 9 E) / B P E b 9 O " m y b N Q E U { H e V A P
 m 4 " m 1 m 2 A F b / h] k b W " K X
 Y B P E b ! = h mm' X Y Z e c l I 9 E ([3 " G
 \ " \ 3 0 K i 0 K > 4 a b] a \ @ < b \$] " & k ^ b
 } P a ~ 1 " * 5 6 6 A] b] 3 a E " (A] b] 3 a E " (i * + 4 " J { - O ' 0 K >
 7 " (e 1 c

' A] ` _ F c " 2 ' Q K ^
 ' A] _) _ ` a Y Z b b " {
 (i b b + c d 7 " m O (" m O e f " + ! V W A] g g i
 @ < 6 " E k k & : ") ^ h 4
 9 " b R 0 y b + c U y " # y V K A Y] [s K i X m j Y
 O V W b c R " m K > ~ ^ , k y * 6 b] A
 I ' Y j k P " j } 0 L
 _ A _ m b H < n 4 - - 5 " 5 5 0 X " p , _ q b r 7 # H
 / P ' r r s t W W H e b V
] u 0 " ! 7 v "] w { x y Y
 X A z ; Y Q " B 4 h ' b
 q " y E > E c z { " b ! |
 1 A | 4 J " * b C = u @ P
] } A
 _ b T 4 2 } ; 9 < k Z "
] [_ 9 ^ ~ == E A

* 1 (< "/ j j A K O !
 = " X { u] k ' \ " 2 k 9
 E l i A d m / n " c / o A p
 0 l = " X { u m F " 2 q q i
 & r E " s t E o K O O " " R m
 k k p , " 2 9 E ' u A
 N p " 0 > 0 ! v 2 m K ?
 & " x 4 K > { N Q b 0 " e B
 { p ' " e / { p w A i] (, '
 b 0 " u K \ s t @ O e b M L
 ^ " i v >] " 4 @ 3 I A m O =
 R W M w " ! + b + > 0 + :
 I Q N I A
 5 (y U Y K x " a m +
 c K O O " } 9 ' H I m M 6 b
 4 " } 9 x y [b z b " } 9
 * { h b _ q A P Y O O " #
 9 ~ ' u " n * (" m K i u [
 # x l) " B | A + c " } 7
 ~ " y # ` (@ n a ? Y
 x l \ 0 X 0] " j j i p
 # " y j j i 1 6 o j j i l " i
 y j j i 遗 5 A i j m ' b }] "

{ Q c X o i] b V k c " Q
 m j A + 9 "] ' E 2 g p]
 ' E " q b 阑珊 a "] = J U " "
 } 0 \ r A
 x , 2 } Y " R * | " K
 O O # I E " K O O t _ E " H I
 K u 旅 5 " g p { 4 w) m K
 置 b % 置 O P 谁 " u { 4 w) 谁
 4 ! * (久 A 甚至 { ' 楚 " @
 某 K _ a " 某 K | 角 " 邂逅 b " #
 I b \ 逢 b " y # 4 } 谁 ? + c
 擦肩 b ' u " 谁 y } 谁 b { 0 ?
 " } " /] K " 剩 6 K > 0
 b 踊躅独 5 A
] c / * q 5 q p b c
 " P B 0 4 \$ = 6 v ' P h i A
 N p # I K O O " } ~ E / ; K
 O O b \ { ? # ? M m b] ' "
 ~ K = G k b # I A p m x l
 b 旅 C v \ m K a }] "#] c
 w Z M a m K > 0 " w] c *
 i " J] c 2 | A

CK ") v % f 4 @ =
 + 喻 b 跺 b " 尤 O } \ J E R b
] c " G } @ H 1 * (E 0 x
 , b (z A ^ G B b f P X P
 " P 0 i J 忙忙碌碌 " K i 5
 e / 2 : { ` * (M E S
 V 4 E G A
 } Y 0 \ B h k h A { |
 2 b A Y } Q R b W F " u } * (b b A p B P O T K \ H 1 b
 n 0 "] Y b (/ E " P ! g " 挺
 k b " N p } p ~ { | . 0 b 缘
 ! " y N p } p ~ { | b > Z f
 % ^] 2 { 阴 x A
 T ' * P | 2] G b }
 h 4 + K + b g D " P] B
 E " u - K 枪 A] P 掉 E K
 \ ^

7 j W r • b , h ' M / /
 M) x , I Q 5 " # ! z "
 N C 198 b m j # M @ I Z b
 A - w \$ z % & b ' (" !
 z ") @ * B @ =) + "
 4 1 n b n , - " K z z
 . / b] i ~ ? ' T O &
 M " * (O) \$: 1 ' ' " i ^
 + O W { B b " @ d % | 2 R
 3 A

7 j AB 4 ! z " / \$ z
 % & M 0 ' " S + E T c •
 P 7 H n b 1 , W u > 0 Z @
 b p 4 ! A # 0 T i (R b " 5
 ' P \$ z % & # ! z " 1 '
 ! ~ U 6 M X b q b c K {
 [w x E { [~ 7 M 3 8 A H
 [9 p ~ 7 : ; E m X " + 9 K
 { { 4 N I R] A Y ! z " N
 K f m R * < T b " = i % 2
 m E E b - I " 0 c • T b g
 Du I W i > i 6 A T @ R #
 ? b 7 L ^ @ A 4 " + }
 T I \$ z % & K Y p D '

5 c bi , " u } @ + ^ "
 B C D / T p E F A Y > O G
 . m 4 / b m j @ Y ^ T H
 I " } + > { J = b * K L " O
 @ \$ z % & " / " , 4 T # *
 (M K 4 N " , 4 T O 5 s *
 (O j b _ ^ A Y > 7 L b
 > 2 } i " # 0 c * 3 P I J
 7 j b | 4 Z v " u # 0 c U
 R x , 8 g A ! z " J 4 P z
 B + K z z Z [, Q R b q
 F / " + } \$ z % & M B T
 b e / b S " T v b 0 ' @ s
 U V W b 7 j ^ & X " T Y 4 *
 k E \$ " H I J R E 1 b *
 (I B C D A c y m R E \$ " 2 k T " Z M @ ~ 1 " Z
 M @ + > V W y [y b d Z
 v A 7 L e " } ? \ E / / 1
 5 c F b 8 0 u 2 e " M m
 b K \ " 2 9 ~ E K > N u W {
 B b A
 \$ 5 T g h B X J " 7 v
 I 4 ' _ I M @ > > c @ " W

STU

孙庆

—X