ROBERT W BAUMANN

• ! "#\$%&&#""#\$'()#*#+,)&'-'. #//%0%'#\$'12%'3#/4'. "#&&'

5#6'789: '

; *%'. #//%0%'<1"%%1'

=#")%&1%">'?: '@7A7@'B<: '

C2#*W'EF@GH'I 8JKJGI 8'

 $\% + L_{1}$ "MLN + L** $\bigcirc 2\#/4$)"#&&P%QN"

R%MCL0%D'211C&DSSRRRP2#/4)"#&&P%QNSL)LQ%+,)&SC"#0"L+&S%)#*#+,)&KL*QK L))#N*1,*0S\$L)N/14S"#M%"1KRKMLN+L**"

EDUCATION

Ph D in **Ec**•n•mic ><%C1%+M%"'9@@J'

T2%'; 2,#'<1L1%'B*,U%"&,14>'. #/N+MN&>'; 2,#'
K'V,%/Q&'#\$'&C%),L/,WL1,#*D'/LM#"'%)#*#+,)&>',*QN&1",L/'#"OL*,WL1,#*>'
%)#*#+%1",)&''

M A in Economic ><%C1%+M%"'9@@7'

T2%'; 2,#'<1L1%'B*,U%"&,14>'. #/N+MN&>'; 2,#'

BA in

!

A Cla k Uni e i : CC/,%Q'()#*#+%1",)&'E0"LQNL1%K/%U%/')#N"&%^']'1LN021'12%' T,+%'<%",%&'&%)1,#*ℍ **A The Ohi S a e Uni e i** '_#U%"*+%*1'L*Q'5N&,*%&&>']*1%"+%Q,L1%' ?,)"#%)#*#+,)'T2%#"4'

RESEARCH AND PUBLICATIONS

Refe eed P blica ion

!

- 5LN+L**>'[#M%"1>'L*Q'X#2*'. 2L"/%&'5"LQMN"4>'`(&1,+L1,*0'12%'V,&)L/']+CL)1'#\$'
 <1LQ,N+'a%U%/#C+%*1&D'(UL/NL1,*0'L'!"#'V#"+L'?#Q%/b>'\$#"12)#+,*0',*'
 ! "#\$%&'(%)*)&+',+-%:"
- $5LN + L^**' [#M\%''1']L^*Q'aLU,Q'<)2LC' = L0\%'c\%1'a,\&)#N^*1'[L1\%\&D'B^* + L&Z,^*0'12\%'] + CL)1'#\$'.; d]aK78b\$'/0''1) *\$'02'3+4*\$'5&0)06\&7\$'d#/P'9G'E9H\$'9@99\$'CCP'I 8K8@P'$
- 5LN+L**>'[#M%"1>'<1LU%/%4K; e. L""#//>; /%*L>'L*Q'__"%0#"4'd,#/L*1%>`a#'<#U%"%,0*'
 . "%Q,1'[L1,*0&'?L11%"f'T2%'[%/L1,#*&2,C'M%1R%%*'[L1,*0&'L*Q'. LC,1L/'V/#R&'
 5%\$#"%'L*Q': \$1%"'12%'__"%L1'[%)%&&,#*b>'899\$%: '5&0)06%&7'3+;;+17>'d#/P'98'
 E77H>'9@99>'CCP'8AAK8IJP''
- 5LLQ%'[#M%"1>'5LN+L**>'[#M%"1>'L*Q'd,)1#"'?L12%&#*'`?%0LK(U%*1&'L*Q' T#N",&+D'T2%'. L&%&'#\$'12%'9@7Y'V]V: '=#"/Q'. NC'L*Q'12%'9@7A'[,#'<N++%"' ; /4+C,)'_L+%&b>'<u>: '?#Q%"*' N,Q%'1#'<C#"1&'()#*#+,)&</u>>'9@97>'g#**,0>'[P'L*Q' <P'g%&%**%'%Q&P'. 2%/1%*2L+>BgD'(QRL"Q'(/0L">'CCP'71YK7GGP''
- 5LN+L**>'[#M%"1>'?L12%&#*>'d,)1#">'L*Q'a%M"L'; e. #**#">`3,QQ%*'<NM&,Q,%&'L*Q' 12%'! NM/,)'; R*%"&2,C'#\$'<C#"1&'VL),/,1,%&D'T2%'. L&%'#\$'<L*1L'. /L"L'<1LQ,N+\(\pi\)'+1)*;%0)*\$'/0"1)*\$'02'=901;'>*)*4+6+);'*): '>*1?+;%)4>'d#/β'9@'EJSYH>'9@9@>'CCβ'7G7K789β''
- ""5LN+L**>[#M%"1>'L*Q'd,)1#""?L12%&#*>`?%0LK(U%*1&'L*Q'T#N",&+D'T2%'. L&%'#\$" """"5"LW,/b>'@0);+6901*1A'5&0)06%'! 0\$%A

#

!

```
"""5LN+L**>'[#M%"1>'L*Q'aLU,Q'<)2LC>'`<1L00%"%Q'=L0%'c%1'a,&)#N*1'[L1%&0'""
""""": ))#N*1,*0'$#""!#&&,M/%'i<1,)Z4i'=L0%&b>'/0"1)*$'02'(01+)7%'5&0)06%7>'d#/f'91"
""""E7H>'9@7G>'CCP'71KJJP''
  5LN+L**>'[#M%"1'L*Q'd,)1#""?L12%&#*>`?L*4'3LCC4'[%1N"*&f'T2%'! "#K5#R/>'
      ?%0LK%U%*1&>'L*Q'T#N",&+',*'3LRL,,\\dagge\CO"1\%6'5\&0\)06\\&7'\d#/\text{P'9J'EYH\'9@71\>'
      CCP'I GGKG@9P"
''''5LN+L**>'[#M%"1>'L*Q'XN&1,*'<U%)>'`T2%']+CL)1'#$'!#/,1,)L/'B*)%"1L,*140': '[#MN&1'''
''''''9@7A>'CCP'GJ1KGAYP''
''''5LN+L**>'[#M%"1>'L*Q'5"4L*'(*0%/2L"Q1>'`. ",+%'L*Q'j LM#"'?L"Z%1'TN"*#U%"为''
      899$\\\: '5\&0)06\\&7'3+;;+17\\d\#/P'9J'EIH\\'9@7A\\CCP'FJAKFJGP'
""5LN+L**>'[#M%"1'L*Q'aLU,Q'<)2LC>'`?%Q,)L/'c%1'a,&)#N*1'[L1%&0'BCQL1%Q'L*Q'[%K'
"""""6L+,*%Qb'/0"1)*$'02'(01+)7%'5&0)06%87>'d#/P'9A'E7H>'9@7F>'CCP'7K7AP'
''''5LN+L**>'[#M%"1>'<U%)>'XN&1,*>'L*Q'V"L*),&'<L*WL",>`T2%'[%/L1,#*&2,C'M%1R%%*'''
""""5&0)06%'/0"1)*$\d#/P'Y7'EJH\9@7F\CCP'YYJKYFGP'"
```

!

\$

```
5LN+L**\[ #M%"1\' (*0%/2L"Q1\'5"4L*\'L*Q'd,)1#"': P'?L12%&#*\\` (+C/#4+%*1'
             ($$\%)1\&'#$'12\%'9@@9' = _,*1\%'''; /4 + C_,)&',*'< L/1'i LZ\%'. _,14\'B1L2\\%'/*D1\#I &D+1'2I 1'
             J*;%) *$K?0)06;\"): '=;*;%;%'L'/0"1) *$'02'5&0)06;\"): '=;*;%;%7>'d#/P'9J9'
             EJH>'9@79>'CCP'J@GKJ71P'
     5LLQ%'\[#M%"1': P'5LN+L**\\[#M%"1'=P'L*Q'd,\)1#"': P'?L12%&#*\\[5,0'?%*'#*'
             L + CN\&D'(\&1, +L1, *O'12\%'] + CL)1'\#\$'. \#//\%0\%' < C\#''1\&'\#*'j \#)L/'()\#*\# + ,\%\&b'
             , +4%0) *$'=;'': \( \mathre{\text{H}} \) 'YF'EJH\'9@77\'CCP'JI 7-JG@P''
     5LN+L**>'\[ #M\%"1\' (\*0\%/2L"\Q1\'\5"4L\*\\L\*\Q'\d,\)1\#"': \!'\?\L12\\&\#\*\'\\ 3L,\/\1\#\'12\\'.\ 2,\\\$\)
             : &&%&&, *0'12%'()#*#+,)']+CL)1'#$'! "%&,Q%*1,L/']*LNON"L1,#*&'#*'12%'
             = L\&2.*01#**aP. P'i #)L/'()#*#+4\\\'C0''1\(\text{76}\)'5\\\\0)06\(\text{87}\)'d#\\\'7\A'EY\\\\'9\@7\@\'CC\\'
             7@G7K7@GIP"
     5LN+L**\[ #M%"1\'?L12%&#*\d.)1#"': B\L*O'. L"L': P'3#R%\`: *#+L/.%&'.*'
             T#N"*L+%*1'a%&,0*D'T2%'?LQ*%&&'#$'?L")2'?LQ*%&&b'/0"1)*$'02'B''*);%*;%+;
             8) *$A7%'%) '=901;7>'d#/P'A'E9H>'9@7@>'L''1,)/%'YP''
     5LLQ%>'\[ #M%"1': P'5LN + L * *>'\[ #M%"1' = P'L * Q'd, \) 1#"": P'? L12%&# *>` </,CC%"4' </#C%f'
             : \&\&\&\&\&, *0'12\%'()#*#+,)']+CL)1'#$'12\%'9@@9'=,*1\%''; /4+C,)' L+\&\',*'<L/1'
             /LZ%'. ,14>'B1L2xb', M4%0)'+;'NM-+$099+6+);>'d#/P'J7>'9@7@>'CCP'G7K87P'
     5LLQ%'[#M%"1': P'5LN+L**'[#M%"1'L*Q'd,)1#"": P'?L12%&#*>` [%I%)1,*0'
             m \# U\% 1, \# L/e' = .8Q\# + D'(81. + L1. *O'12''() \# \# + .)' + CL)1' \# CL1. \# L/! \# / .1.) L/'''
             . #*U%*1,#*&\day{5*7;+1)'5&0)06\day{0''1) *\day{P'JF'EYH\9@@8\CCP'F9@KFJ@P'
     5LN+L**>'\[#M\\"1'=\b'. 2\n\alu,\Q'\qP=\b'L*\Q'. 2\L"\\\&\3\bi': *\Q\\"1\#*>\`\[\\\,0,\\#\\&\
             ! %*L/14', *'12%'Pf=f'J+. 7'G'Q01$: ', +901;'. #//%0%' [ L*Z, *0&b'5: "&*;%0) '
             5&0)06%7>'d#/P'71'EYH>'9@@8>'CCP'Y87-F@YP'
""" [N]_L = [-5LN + L^*]_a [-6]_A = [-5LN + L^*]_a [-6]_A = [-6]_A [-6]_A = [-6]_A [-6]_A = [-6]_A 
      ''''''a%),&,#*': )''#&&'[L)%$'CD+'86+1%*)'5&0)06%;>'d#/P'FJ>'9@@8>'CCP'A@KIYP'
     5LN+L**>'[#M%"1>'?L12%&#*>'d,)1#"": P'L*Q'. 2,2,"#'?N"#,>\`5#R/,*0',*'3LRL,,)\'
             (6L+,*,*0'12%'($$%)1,U%*%&&'#$'<C#"1&K5L&%Q'T#N",&+'<1"L1%0,%&\b'/0''1) *$'02'
             =901;7'5&0)06%7>'d#/P'7@'E7H>'9@@8>'CCP'7@1K79JP'
```

%

''''5LLQ%'\[#M%"1': P'5LN+L**\\[#M%"1\'L*Q'd,\)1#"': P'?L12%&#*\

 $5LN + L^{**} > [\#M\%''1' = P'L^*Q'[LC2L\%'' < \#/\# + \#^* > \hat{\ } (QN)L1, \#^*L/' < C, \#U\%'' \& D']$

```
''''(L&1%"*'()#*#+,)': &&#),L1,#*'?%%1,*0&>'?L")2'9@7G>'5#&1#*D''
''''''?%0LK(U%*1&'L*Q'T#N",&+D'T2%'. L&%&'#$'12%'9@7Y'V]V: '=#"/Q'. NC'L*Q''
'''''12%'9@7A'[,#'<N++%"'; /4+C,)'_L+%&b'

''''(L&1%"*'()#*#+,)': &&#),L1,#*'?%%1,*0&>'V%M"NL"4'9@7I>'C%R'p#"Z'.,14D''
'''''']*$"L&1"N)1N"%']*U%&1+%*1'($$%)1&'#$'12%'5"LW,/'=#"/Q'. NCb'L*Q'`: &&%&&,*0'''
''''''''''
***NM&,Q,%&'$#"'!"#$%&&,#*L/'<C#"1&'<1LQ,N+&'-'T2%'. L&%'#$'<L*1L'./L"L'<1LQ,N+b'

'''': //,%Q'<#),L/'<),%*)%': &&#),L1,#*'?%%1,*0&>'
```

(

```
 . /L"Z'B^*,U\%"\&,14'()\#^*\#+,)\&'<\%+,^*L"><\%C1\%+M\%"'9@@Y>'=\#")\%&1\%"'?:D' \\      `(QN)L1,\#^*L/'<C,//\#U\%"&D'a\#%&'; *\%'<,W\'V,1': //fb' \\      . ?,QR\%&1\%"^*'()\#^*\#+,)\&': &&\#),L1,\#^*>'?L")2'9@@Y>'. 2,)L0\#D'`a\%1\%"+,^*L^*1&'\#\$' : CCL/L)2,Le\%'!\%"&,&1\%*1!!\#U\%"14\Pb' \\      T2\%'; 2,\#'<1L1\%'B^*,U\%"&,14'?,)"\#\%)\#^*\#+,)&'<\%+,^*L">'a\%)\%+M\%"'9@@9>'.\#/N+MN&' ; 3D'`?\%L\&N\",^*O'[\%1N\"^*\&'1\#'?,O"L1,\#^*'B\&,^*O'12\%'?\%12\#O'\#\$'<,+N/L1\%O' j,Z\%/,2\#\QD': *': CC/,)L1,\#*'1\#'?,O"L1,\#*': +\#*O'!\#\""=2,1\%\Pb''
```

?,QR%&1%"*'()#*#+,)&': &&#),L1,#*>'?L4'9@@9>'. 2,)L0#D'`

)

!

```
'''''''''CD+'/0"1) *$'02'N\%*7;+1'=;'': \%+70'! O$\%A'*): '>*) *4+6+); 'E9@7@H'
  """"/0"1) *$'02'(01+)7%'5&0)06%7'E9@9@H'
  """"/0"1)*$'02'3+4*$'5&0)06%7'E9@7Y>'9@7F>'9@7GH'
  '''''''/0"1) *$'02'B'' *) ;% *;%-+'8) *$A7%'02'=901;'E9@77>'9@9@H'
''''''''''''/0''1)*$'02', +4%0)*$'=&\(\darkarrow\)&+'E9@@8H'
''''''9@97A>'9@7I>'9@78>'1R,)%',*'9@9@>'1R,)%',*'9@97>'9@99>'9@9JH'
"""""/0"1) *$'02'=901; '*): 'C0"1%76'E9@7AH'
""""""/0"1) *$'02'P1#*) '822*%17'E9@9JH'
   """"3*#0"1'5&0)06%87'E9@7@H'
  """"J*;%0)*$'C*H'/0"1)*$'E9@@GH''
  """", +4%0) *$'=; ": %+7'E9@7FH'
  '''''=0&%*$'=&%+)&+', +-\%+. 'E9@7JH'
  '"'''=0";D+1)'5&0)06%'/0"1)*$'E9@77H'
  """"P1#*)'=:": %+7'E9@7YH'
GRANTS AWARDS HONORS
```

```
"": "12N"'XP'; ej %L"4'VL)N/14'[%)#0*,1,#*': RL"Q>'s79:@@@>'<N++%"'9@7A'
''''VL)N/14'?L"&2L/>3#/4'. "#&&'. #++%*)%+%*1>'<C",*0'9@7Y'L*Q'<C",*0'9@7F'''
''''[,&,*0'<1L''': RL"Q>'3#/4'. "#&&'; $$,)%'#$'! NM/,)': $$L,"&>'a%)%+M%"'9@7@'
''''3#/4'. "#&&'[%&%L")2'L*Q'! NM/,)L1,#*&'_"L*1>'s7;F@@>'<C",*0'9@7@''
""". 2L"/%&'t'[#&L**L'5L1)2%/#"'EV#"OH'V#N*QL1,#*' "L*1>'sJF@@>'<N++%"'9@@A'
  . 2L"/%&'t'[#&L**L'5L1)2%/#"'EV#"QH'V#N*QL1.#*' "L*1>'sJF@@>'<N++%"'9@@Y'
  ! (_<'V%//#R&2,C>'a%CL"1+%*1'#$'()#*#+,)&>'T2%'; 2,#'<1L1%'B*,U%"&,14>'=.*1%"''''
a,)%'V%//#R&2,C>'a%CL"1+%*1'#$'()#*#+,)&>T2%'; 2,#'<1L1%'B*,U%''&,14>'VL//'
  \NI "1%"'9@@9'
"""a%CL"1+%*1'.,1L1,#*'$#"'T%L)2,*0'(6)%//%*)%>a%CL"1+%*1'#$'()#*#+,)&>T2%'; 2,#""
      <1L1%'B*,U%"&,14>'9@@9'
"""; N1&1L*Q,*0'<)2#/L"",*'()#*#+,)&': RL"Q>'5/N$$1#*'. #//%0%>'? L4'788G'
```