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web design of column ebcs 2 3 3 shell structures three aspects are presented the physical behaviour the structural analysis and the design of shells in a simple integrated and yet concise fashion thus the book contains three major aspects of shell engineering 1 physical understanding of shell behaviour 2 use of applied shell theories

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web dec 9 2017 contd design moments in braced columns maximum design column moment greatest of a  $m_2$  b  $m_1$  c  $m_2$  d  $m_1$  e  $m_2$  f  $m_1$  g  $m_2$  h  $m_1$  i  $m_2$  j  $m_1$  k  $m_2$  l  $m_1$  m  $m_2$  n  $m_1$  o  $m_2$  p  $m_1$  q  $m_2$  r  $m_1$  s  $m_2$  t  $m_1$  u  $m_2$  v  $m_1$  w  $m_2$  x  $m_1$  y  $m_2$  z  $m_1$  aa  $m_2$  ab  $m_1$  ac  $m_2$  ad  $m_1$  ae  $m_2$  af  $m_1$  ag  $m_2$  ah  $m_1$  ai  $m_2$  aj  $m_1$  ak  $m_2$  al  $m_1$  am  $m_2$  an  $m_1$  ao  $m_2$  ap  $m_1$  aq  $m_2$  ar  $m_1$  as  $m_2$  at  $m_1$  au  $m_2$  av  $m_1$  aw  $m_2$  ax  $m_1$  ay  $m_2$  az  $m_1$  ba  $m_2$  bb  $m_1$  bc  $m_2$  bd  $m_1$  be  $m_2$  bf  $m_1$  bg  $m_2$  bh  $m_1$  bi  $m_2$  bj  $m_1$  bk  $m_2$  bl  $m_1$  bm  $m_2$  bn  $m_1$  bo  $m_2$  bp  $m_1$  bq  $m_2$  br  $m_1$  bs  $m_2$  bt  $m_1$  bu  $m_2$  bv  $m_1$  bw  $m_2$  bx  $m_1$  by  $m_2$  bz  $m_1$  ca  $m_2$  cb  $m_1$  cc  $m_2$  cd  $m_1$  ce  $m_2$  cf  $m_1$  cg  $m_2$  ch  $m_1$  ci  $m_2$  cj  $m_1$  ck  $m_2$  cl  $m_1$  cm  $m_2$  cn  $m_1$  co  $m_2$  cp  $m_1$  cq  $m_2$  cr  $m_1$  cs  $m_2$  ct  $m_1$  cu  $m_2$  cv  $m_1$  cw  $m_2$  cx  $m_1$  cy  $m_2$  cz  $m_1$  da  $m_2$  db  $m_1$  dc  $m_2$  dd  $m_1$  de  $m_2$  df  $m_1$  dg  $m_2$  dh  $m_1$  di  $m_2$  dj  $m_1$  dk  $m_2$  dl  $m_1$  dm  $m_2$  dn  $m_1$  do  $m_2$  dp  $m_1$  dq  $m_2$  dr  $m_1$  ds  $m_2$  dt  $m_1$  du  $m_2$  dv  $m_1$  dw  $m_2$  dx  $m_1$  dy  $m_2$  dz  $m_1$  ea  $m_2$  eb  $m_1$  ec  $m_2$  ed  $m_1$  ee  $m_2$  ef  $m_1$  eg  $m_2$  eh  $m_1$  ei  $m_2$  ej  $m_1$  ek  $m_2$  el  $m_1$  em  $m_2$  en  $m_1$  eo  $m_2$  ep  $m_1$  eq  $m_2$  er  $m_1$  es  $m_2$  et  $m_1$  eu  $m_2$  ev  $m_1$  ew  $m_2$  ex  $m_1$  ey  $m_2$  ez  $m_1$  fa  $m_2$  fb  $m_1$  fc  $m_2$  fd  $m_1$  fe  $m_2$  ff  $m_1$  fg  $m_2$  fh  $m_1$  fi  $m_2$  fj  $m_1$  fk  $m_2$  fl  $m_1$  fm  $m_2$  fn  $m_1$  fo  $m_2$  fp  $m_1$  fq  $m_2$  fr  $m_1$  fs  $m_2$  ft  $m_1$  fu  $m_2$  fv  $m_1$  fw  $m_2$  fx  $m_1$  fy  $m_2$  fz  $m_1$  ga  $m_2$  gb  $m_1$  gc  $m_2$  gd  $m_1$  ge  $m_2$  gf  $m_1$  gg  $m_2$  gh  $m_1$  gi  $m_2$  gj  $m_1$  gk  $m_2$  gl  $m_1$  gm  $m_2$  gn  $m_1$  go  $m_2$  gp  $m_1$  gq  $m_2$  gr  $m_1$  gs  $m_2$  gt  $m_1$  gu  $m_2$  gv  $m_1$  gw  $m_2$  gx  $m_1$  gy  $m_2$  gz  $m_1$  ha  $m_2$  hb  $m_1$  hc  $m_2$  hd  $m_1$  he  $m_2$  hf  $m_1$  hg  $m_2$  hh  $m_1$  hi  $m_2$  hj  $m_1$  hk  $m_2$  hl  $m_1$  hm  $m_2$  hn  $m_1$  ho  $m_2$  hp  $m_1$  hq  $m_2$  hr  $m_1$  hs  $m_2$  ht  $m_1$  hu  $m_2$  hv  $m_1$  hw  $m_2$  hx  $m_1$  hy  $m_2$  hz  $m_1$  ia  $m_2$  ib  $m_1$  ic  $m_2$  id  $m_1$  ie  $m_2$  if  $m_1$  ig  $m_2$  ih  $m_1$  ii  $m_2$  ij  $m_1$  ik  $m_2$  il  $m_1$  im  $m_2$  in  $m_1$  io  $m_2$  ip  $m_1$  iq  $m_2$  ir  $m_1$  is  $m_2$  it  $m_1$  iu  $m_2$  iv  $m_1$  iw  $m_2$  ix  $m_1$  iy  $m_2$  iz  $m_1$  ja  $m_2$  jb  $m_1$  jc  $m_2$  jd  $m_1$  je  $m_2$  jf  $m_1$  jg  $m_2$  jh  $m_1$  ji  $m_2$  jj  $m_1$  jk  $m_2$  jl  $m_1$  jm  $m_2$  jn  $m_1$  jo  $m_2$  jp  $m_1$  jq  $m_2$  jr  $m_1$  js  $m_2$  jt  $m_1$  ju  $m_2$  jv  $m_1$  jw  $m_2$  jx  $m_1$  jy  $m_2$  jz  $m_1$  ka  $m_2$  kb  $m_1$  kc  $m_2$  kd  $m_1$  ke  $m_2$  kf  $m_1$  kg  $m_2$  kh  $m_1$  ki  $m_2$  kj  $m_1$  kk  $m_2$  kl  $m_1$  km  $m_2$  kn  $m_1$  ko  $m_2$  kp  $m_1$  kq  $m_2$  kr  $m_1$  ks  $m_2$  kt  $m_1$  ku  $m_2$  kv  $m_1$  kw  $m_2$  kx  $m_1$  ky  $m_2$  kz  $m_1$  la  $m_2$  lb  $m_1$  lc  $m_2$  ld  $m_1$  le  $m_2$  lf  $m_1$  lg  $m_2$  lh  $m_1$  li  $m_2$  lj  $m_1$  lk  $m_2$  ll  $m_1$  lm  $m_2$  ln  $m_1$  lo  $m_2$  lp  $m_1$  lq  $m_2$  lr  $m_1$  ls  $m_2$  lt  $m_1$  lu  $m_2$  lv  $m_1$  lw  $m_2$  lx  $m_1$  ly  $m_2$  lz  $m_1$  ma  $m_2$  mb  $m_1$  mc  $m_2$  md  $m_1$  me  $m_2$  mf  $m_1$  mg  $m_2$  mh  $m_1$  mi  $m_2$  mj  $m_1$  mk  $m_2$  ml  $m_1$  mm  $m_2$  mn  $m_1$  mo  $m_2$  mp  $m_1$  mq  $m_2$  mr  $m_1$  ms  $m_2$  mt  $m_1$  mu  $m_2$  mv  $m_1$  mw  $m_2$  mx  $m_1$  my  $m_2$  mz  $m_1$  na  $m_2$  nb  $m_1$  nc  $m_2$  nd  $m_1$  ne  $m_2$  nf  $m_1$  ng  $m_2$  nh  $m_1$  ni  $m_2$  nj  $m_1$  nk  $m_2$  nl  $m_1$  nm  $m_2$  no  $m_1$  np  $m_2$  np  $m_1$  oq  $m_2$  or  $m_1$  os  $m_2$  ot  $m_1$  ou  $m_2$  ov  $m_1$  ow  $m_2$  ox  $m_1$  oy  $m_2$  oz  $m_1$  pa  $m_2$  pb  $m_1$  pc  $m_2$  pd  $m_1$  pe  $m_2$  pf  $m_1$  pg  $m_2$  ph  $m_1$  pi  $m_2$  pj  $m_1$  pk  $m_2$  pl  $m_1$  pm  $m_2$  pn  $m_1$  po  $m_2$  pp  $m_1$  pq  $m_2$  pr  $m_1$  ps  $m_2$  pt  $m_1$  pu  $m_2$  pv  $m_1$  pw  $m_2$  px  $m_1$  py  $m_2$  pz  $m_1$  qa  $m_2$  qb  $m_1$  qc  $m_2$  qd  $m_1$  qe  $m_2$  qf  $m_1$  qg  $m_2$  qh  $m_1$  qi  $m_2$  qj  $m_1$  qk  $m_2$  ql  $m_1$  qm  $m_2$  qn  $m_1$  qo  $m_2$  qp  $m_1$  qq  $m_2$  qr  $m_1$  qs  $m_2$  qt  $m_1$  qu  $m_2$  qv  $m_1$  qw  $m_2$  qx  $m_1$  qy  $m_2$  qz  $m_1$  ra  $m_2$  rb  $m_1$  rc  $m_2$  rd  $m_1$  re  $m_2$  rf  $m_1$  rg  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$m_2$  yh  $m_1$  yi  $m_2$  yj  $m_1$  yk  $m_2$  yl  $m_1$  ym  $m_2$  yn  $m_1$  yo  $m_2$  yp  $m_1$  yq  $m_2$  yr  $m_1$  ys  $m_2$  yt  $m_1$  yu  $m_2$  yv  $m_1$  yw  $m_2$  yx  $m_1$  yy  $m_2$  yz  $m_1$  za  $m_2$  zb  $m_1$  zc  $m_2$  zd  $m_1$  ze  $m_2$  zf  $m_1$  zg  $m_2$  zh  $m_1$  zi  $m_2$  zj  $m_1$  zk  $m_2$  zl  $m_1$  zm  $m_2$  zn  $m_1$  zo  $m_2$  zp  $m_1$  zq  $m_2$  zr  $m_1$  zs  $m_2$  zt  $m_1$  zu  $m_2$  zv  $m_1$  zw  $m_2$  zx  $m_1$  zy  $m_2$  zz  $m_1$  aa  $m_2$  ab  $m_1$  ac  $m_2$  ad  $m_1$  ae  $m_2$  af  $m_1$  ag  $m_2$  ah  $m_1$  ai  $m_2$  aj  $m_1$  ak  $m_2$  al  $m_1$  am  $m_2$  an  $m_1$  ao  $m_2$  ap  $m_1$  aq  $m_2$  ar  $m_1$  as  $m_2$  at  $m_1$  au  $m_2$  av  $m_1$  aw  $m_2$  ax  $m_1$  ay  $m_2$  az  $m_1$  ba  $m_2$  bb  $m_1$  bc  $m_2$  bd  $m_1$  be  $m_2$  bf  $m_1$  bg  $m_2$  bh  $m_1$  bi  $m_2$  bj  $m_1$  bk  $m_2$  bl  $m_1$  bm  $m_2$  bn  $m_1$  bo  $m_2$  bp  $m_1$  bq  $m_2$  br  $m_1$  bs  $m_2$  bt  $m_1$  bu  $m_2$  bv  $m_1$  bw  $m_2$  bx  $m_1$  by  $m_2$  bz  $m_1$  ca  $m_2$  cb  $m_1$  cc  $m_2$  cd  $m_1$  ce  $m_2$  cf  $m_1$  cg  $m_2$  ch  $m_1$  ci  $m_2$  cj  $m_1$  ck  $m_2$  cl  $m_1$  cm  $m_2$  cn  $m_1$  co  $m_2$  cp  $m_1$  cq  $m_2$  cr  $m_1$  cs  $m_2$  ct  $m_1$  cu  $m_2$  cv  $m_1$  cw  $m_2$  cx  $m_1$  cy  $m_2$  cz  $m_1$  da  $m_2$  db  $m_1$  dc  $m_2$  dd  $m_1$  de  $m_2$  df  $m_1$  dg  $m_2$  dh  $m_1$  di  $m_2$  dj  $m_1$  dk  $m_2$  dl  $m_1$  dm  $m_2$  dn  $m_1$  do  $m_2$  dp  $m_1$  dq  $m_2$  dr  $m_1$  ds  $m_2$  dt  $m_1$  du  $m_2$  dv  $m_1$  dw  $m_2$  dx  $m_1$  dy  $m_2$  dz  $m_1$  ea  $m_2$  eb  $m_1$  ec  $m_2$  ed  $m_1$  ee  $m_2$  ef  $m_1$  eg  $m_2$  eh  $m_1$  ei  $m_2$  ej  $m_1$  ek  $m_2$  el  $m_1$  em  $m_2$  en  $m_1$  eo  $m_2$  ep  $m_1$  eq  $m_2$  er  $m_1$  es  $m_2$  et  $m_1$  eu  $m_2$  ev  $m_1$  ew  $m_2$  ex  $m_1$  ey  $m_2$  ez  $m_1$  fa  $m_2$  fb  $m_1$  fc  $m_2$  fd  $m_1$  fe  $m_2$  ff  $m_1$  fg  $m_2$  fh  $m_1$  fi  $m_2$  fj  $m_1$  fk  $m_2$  fl  $m_1$  fm  $m_2$  fn  $m_1$  fo  $m_2$  fp  $m_1$  fq  $m_2$  fr  $m_1$  fs  $m_2$  ft  $m_1$  fu  $m_2$  fv  $m_1$  fw  $m_2$  fx  $m_1$  fy  $m_2$  fz  $m_1$  ga  $m_2$  gb  $m_1$  gc  $m_2$  gd  $m_1$  ge  $m_2$  gf  $m_1$  gg  $m_2$  gh  $m_1$  gi  $m_2$  gj  $m_1$  gk  $m_2$  gl  $m_1$  gm  $m_2$  gn  $m_1$  go  $m_2$  gp  $m_1$  gq  $m_2$  gr  $m_1$  gs  $m_2$  gt  $m_1$  gu  $m_2$  gv  $m_1$  gw  $m_2$  gx  $m_1$  gy  $m_2$  gz  $m_1$  ha  $m_2$  hb  $m_1$  hc  $m_2$  hd  $m_1$  he  $m_2$  hf  $m_1$  hg  $m_2$  hh  $m_1$  hi  $m_2$  hj  $m_1$  hk  $m_2$  hl  $m_1$  hm  $m_2$  hn  $m_1$  ho  $m_2$  hp  $m_1$  hq  $m_2$  hr  $m_1$  hs  $m_2$  ht  $m_1$  hu  $m_2$  hv  $m_1$  hw  $m_2$  hx  $m_1$  hy  $m_2$  hz  $m_1$  ia  $m_2$  ib  $m_1$  ic  $m_2$  id  $m_1$  ie  $m_2$  if  $m_1$  ig  $m_2$  ih  $m_1$  ii  $m_2$  ij  $m_1$  ik  $m_2$  il  $m_1$  im  $m_2$  in  $m_1$  io  $m_2$  ip  $m_1$  iq  $m_2$  ir  $m_1$  is  $m_2$  it  $m_1$  iu  $m_2$  iv  $m_1$  iw  $m_2$  ix  $m_1$  iy  $m_2$  iz  $m_1$  ja  $m_2$  jb  $m_1$  jc  $m_2$  jd  $m_1$  je  $m_2$  jf  $m_1$  jg  $m_2$  jh  $m_1$  ji  $m_2$  jj  $m_1$  jk  $m_2$  jl  $m_1$  jm  $m_2$  jn  $m_1$  jo  $m_2$  jp  $m_1$  jq  $m_2$  jr  $m_1$  js  $m_2$  jt  $m_1$  ju  $m_2$  jv  $m_1$  jw  $m_2$  jx  $m_1$  jy  $m_2$  jz  $m_1$  ka  $m_2$  kb  $m_1$  kc  $m_2$  kd  $m_1$  ke  $m_2$  kf  $m_1$  kg  $m_2$  kh  $m_1$  ki  $m_2$  kj  $m_1$  kk  $m_2$  kl  $m_1$  km  $m_2$  kn  $m_1$  ko  $m_2$  kp  $m_1$  kq  $m_2$  kr  $m_1$  ks  $m_2$  kt  $m_1$  ku  $m_2$  kv  $m_1$  kw  $m_2$  kx  $m_1$  ky  $m_2$  kz  $m_1$  la  $m_2$  lb  $m_1$  lc  $m_2$  ld  $m_1$  le  $m_2$  lf  $m_1$  lg  $m_2$  lh  $m_1$  li  $m_2$  lj  $m_1$  lk  $m_2$  ll  $m_1$  lm  $m_2$  ln  $m_1$  lo  $m_2$  lp  $m_1$  lq  $m_2$  lr  $m_1$  ls  $m_2$  lt  $m_1$  lu  $m_2$  lv  $m_1$  lw  $m_2$  lx  $m_1$  ly  $m_2$  lz  $m_1$  ma  $m_2$  mb  $m_1$  mc  $m_2$  md  $m_1$  me  $m_2$  mf  $m_1$  mg  $m_2$  mh  $m_1$  mi  $m_2$  mj  $m_1$  mk  $m_2$  ml  $m_1$  mm  $m_2$  mn  $m_1$  mo  $m_2$  mp  $m_1$  mq  $m_2$  mr  $m_1$  ms  $m_2$  mt  $m_1$  mu  $m_2$  mv  $m_1$  mw  $m_2$  mx  $m_1$  my  $m_2$  mz  $m_1$  na  $m_2$  nb  $m_1$  nc  $m_2$  nd  $m_1$  ne  $m_2$  nf  $m_1$  ng  $m_2$  nh  $m_1$  ni  $m_2$  nj  $m_1$  nk  $m_2$  nl  $m_1$  nm  $m_2$  no  $m_1$  np  $m_2$  np  $m_1$  oq  $m_2$  or  $m_1$  os  $m_2$  ot  $m_1$  ou  $m_2$  ov  $m_1$  ow  $m_2$  ox  $m_1$  oy  $m_2$  oz  $m_1$  pa  $m_2$  pb  $m_1$  pc  $m_2$  pd  $m_1$  pe  $m_2$  pf  $m_1$  pg  $m_2$  ph  $m_1$  pi  $m_2$  pj  $m_1$  pk  $m_2$  pl  $m_1$  pm  $m_2$  pn  $m_1$  po  $m_2$  pp  $m_1$  pq  $m_2$  pr  $m_1$  ps  $m_2$  pt  $m_1$  pu  $m_2$  pv  $m_1$  pw  $m_2$  px  $m_1$  py  $m_2$  pz  $m_1$  qa  $m_2$  qb  $m_1$  qc  $m_2$  qd  $m_1$  qe  $m_2$  qf  $m_1$  qg  $m_2$  qh  $m_1$  qi  $m_2$  qj  $m_1$  qk  $m_2$  ql  $m_1$  qm  $m_2$  qn  $m_1$  qo  $m_2$  qp  $m_1$  qq  $m_2$  qr  $m_1$  qs  $m_2$  qt  $m_1$  qu  $m_2$  qv  $m_1$  qw  $m_2$  qx  $m_1$  qy  $m_2$  qz  $m_1$  ra  $m_2$  rb  $m_1$  rc  $m_2$  rd  $m_1$  re  $m_2$  rf  $m_1$  rg  $m_2$  rh  $m_1$  ri  $m_2$  rj  $m_1$  rk  $m_2$  rl  $m_1$  rm  $m_2$  rn  $m_1$  ro  $m_2$  rp  $m_1$  rq  $m_2$  rr  $m_1$  rs  $m_2$  rt  $m_1$  ru  $m_2$  rv  $m_1$  rw  $m_2$  rx  $m_1$  ry  $m_2$  rz  $m_1$  sa  $m_2$  sb  $m_1$  sc  $m_2$  sd  $m_1$  se  $m_2$  sf  $m_1$  sg  $m_2$  sh  $m_1$  si  $m_2$  sj  $m_1$  sk  $m_2$  sl  $m_1$  sm  $m_2$  sn  $m_1$  so  $m_2$  sp  $m_1$  sq  $m_2$  sr  $m_1$  ss  $m_2$  st  $m_1$  su  $m_2$  sv  $m_1$  sw  $m_2$  sx  $m_1$  sy  $m_2$  sz  $m_1$  ta  $m_2$  tb  $m_1$  tc  $m_2$  td  $m_1$  te  $m_2$  tf  $m_1$  tg  $m_2$  th  $m_1$  ti  $m_2$  tj  $m_1$  tk  $m_2$  tl  $m_1$  tm  $m_2$  tn  $m_1$  to  $m_2$  tp  $m_1$  tq  $m_2$  tr  $m_1$  ts  $m_2$  tt  $m_1$  tu  $m_2$  tv  $m_1$  tw  $m_2$  tx  $m_1$  ty  $m_2$  tz  $m_1$  ua  $m_2$  ub  $m_1$  uc  $m_2$  ud  $m_1$  ue  $m_2$  uf  $m_1$  ug  $m_2$  uh  $m_1$  ui  $m_2$  uj  $m_1$  uk  $m_2$  ul  $m_1$  um  $m_2$  un  $m_1$  uo  $m_2$  up  $m_1$  uq  $m_2$  ur  $m_1$  us  $m_2$  ut  $m_1$  uu  $m_2$  uv  $m_1$  uw  $m_2$  ux  $m_1$  uy  $m_2$  uz  $m_1$  va  $m_2$  vb  $m_1$  vc  $m_2$  vd  $m_1$  ve  $m_2$  vf  $m_1$  vg  $m_2$  vh  $m_1$  vi  $m_2$  vj  $m_1$  vk  $m_2$  vl  $m_1$  vm  $m_2$  vn  $m_1$  vo  $m_2$  vp  $m_1$  vq  $m_2$  vr  $m_1$  vs  $m_2$  vt  $m_1$  vu  $m_2$  vv  $m_1$  vw  $m_2$  vx  $m_1$  vy <



bent with zero initial moment along other axis 8 braced and unbraced columns 10