



Engineering Research at the University of South Alabama Systems Engineering



Dr. Robert Cloutier UFORXWLHU#VRXWKDODEDPD HGX

z 0RGHO EDVHG V\ VWHPV HQJLQHHULQJ
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z 'LJLWDO 7KUHDG 'LJLWDO 7ZLQ
z 6\ VWHP \$UFKLWHFWXUH 3DWWHUQV
z 0HWDYHUVH IRU V\ VWHPV HQJLQHHULQJ
z *UDSKLFDO FRQFHSW RI RSHUDWLRQV &21236

Dr. Kari Lippert NOLSSHUW#VRXWKDODEDPD HGX

z 0HWDYHUVH IRU V\ VWHPV HQJLQHHULQJ
z 6\ VWHPV (QJLQHHULQJ

Dr. Bhushan Lohar EORKDU#VRXWKDODEDPD HGX

z 0RGHO EDVHG V\ VWHPV HQJLQHHULQJ
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z 0LVVLRQ HQJLQHHULQJ
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z 5HTXLUHPPHQWV LQWHJUDWLRQ YHULILFDWLRQ YDOLGDWLRQ
z \$UWLILFLDODUHQJLQHHULQJ

Dr. John Usher XVKHU#VRXWKDODEDPD HGX

z 6\ VWHPV VLPXODWLRQ PRGHOLQJ DQG DQDO\VLV
z 'HVLJQ DQG RYHURJXFWLRQ V\ VWHPV
z \$SSOLFDWLRQ RI DUWLILFLDO LQWHJUDWLRQ

Engineering Research at the University of South Alabama

Civil, Coastal, and Environmental Engineering



Dr. John Cleary FOH DU \# VRXWKDODEDPD HGX

z 3RVW GLVDVWHU VWUXE QYHVDLH DWRD WLRQ DQG
z)RUHQDF O\VLV LQYHVWLJDDWLRQ DQG HYDOXDWLRQ
z /DUJH DQG VPDOO VFDOH VWUXFWXUDO WHVWLQJ LQFOXGL
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Dr. Trung Do WUXQJGR#VRXWKDODEDPD HGX

z +XUULFDQH ZLQG ZDYH DQG VXUJH
z &RDVWDO DQG QHDU FRDVW VWUXFWXUHV
z &RPPXQLW\ UHVLOLHQFH DQG UHFR zFWXUHV VP



Engineering Research at the University of South Alabama

Electrical and Computer Engineering



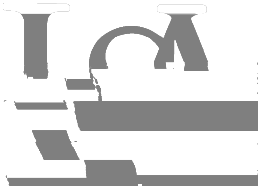
Dr. Yousef El-Sharkh \HO VKDUN#VRXWKDODEDPD HGX

z 6PDUW JULG
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z (QHUJ\ VWRUDJH V\WHPV
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z \$UWLILFLDO LQWHOOLJHQFRQWVFKQOTXHQWLRQSSRZHU V\W

Dr. Na Gong QDJRQJ#VRXWKDODEDPD HGX

z \$UWLILFLDO \$QWMDOKQRORH\
z ,QWHOOLJHQWFRQWVFKQOTXHQWLRQSSRZHU V\WHPV
z 9LHZHU DZDUHVPRIERH
z Ä%P2z

William B. Burnsed Jr. Department of Mechanical, Aerospace and Biomedical Engineering



Dr. Lanier S. Cauley OFDXOH\#VRXWKDODEDPD HGX
z 7KHUPRG\QDPLFV

Dr. Melike Dizbay-Onat PRQDW#VRXWKDODEDPD HGX
z 1DWXUDO ILDFWGYHDMMBGF DUERQV
z 3K\VLFDQ DQG FKHPLFDQ DFWLYDWLRQ PHWKRGV
z 3K\VLFDQ DGVRUSWLRQ
z 3RURXV PDWHULDOV
z %LR EDVHG FRPSRVLWHV
z (QJLQHHULQJ HGXFDWLRQ
z 67(0 RXWUHDFK

Dr. Kuang-Ting Hsiao NWKVLDR#VRXWKDODEDPD HGX
z 'SULQWLQJ RI SRO\PHU FRPSRVLWHV
z &DUERQ ILEHU UHLQIRUFHG SRO\PHU &)53 FRPSRVLWHV
z &DUERQ QDQRKUEHDFG &)53 =7 &)53 PXOWL VFDQHG FRPSRVLWHV
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z 9RLG DQG GHIFW FKDUFDWHUL]DWLRQ DQG PRGHOLQJ IRU
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z)XQFWLRQDQGHG PDWHULDOV
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z 7UDQVSRUW SKHQRPHQD LQ SRURXV PHGLD
z (QHUJ\ VWRUDJH DQG KDUYHVWLQJ

Dr. Julia Kar MNDU#VRXWKDODEDPD HGX
z 0HGLFDO LPDJLQJ PRGDOLWLHV VXFK DV 05, (&* DQG 6SHFW
z &OLQLFDO KHDUW IDLOXUH GHWHFWLRQ
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z GHYHORSPHQW

Dr. Carlos Montalvo FPRQWDOYR#VRXWKDODEDPD HGX
z \QDPLF VLPXODWLRQ FRXSODGRZIEWKDPSHODHGFHDFWLPDWLRQ
z ([SHULPHQWDO IOLJKW VSHUWRQDQGHG HPSURXWRQRRRXV DHU
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z V\VVHPV
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Dr. David A. Nelson GDQHOVRQ#VRXWKDODEDPD HGX
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z %LRORJLFDO HIIHFWV RI QRQ LRQL]LQJ UDGLDWLRQ
z 0HGLFDO GHYLFH GHVLJQ
z +HDW WUDQVIHU HQKDQFHPHQW

Dr. Anh-Vu Phan YSKDQ#VRXWKDODEDPD HGX
z 6\PPHWULF *DOHUNLQ ERXQGDDSDOLPHWLRQDQGWKRGUZDFW\U
z ZDYH GLIUDFWLRQ DQG PRYLQJ ERXQGDU\ SUREOHPV
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