

# 6 X V V H [ (365& 'F / D Q G V F D S H 3 U F 7 K H P H V I R U \$ X '



# & 217(176

& KHPLV\ (QJLQHF ,QIRUPD 0DWKHP 3K\VLFV

140

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# Chemistry

7KHRUHWLFDO DQG ([SHULPHQWDO 0RO

1RYHO LPDJLQJ DJHQWV WR GHWHFW D (3

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3KRVSKOQUOLYHG PDFURF\FOHV 7RZDUG FRPSRQHQWV (3 1 HZ TXDQWXP PHWKRGV FDSDE**SDHURMLVFR** 6 FKU|GLQJHU HTXDWLRQ IRU TXDQWXP (3 'HYHORSLQJ WKH UHDFWLYLW\ RI KLJKC RUJDQRPHWDOOLF FR PPSRFOXHQFOX YO HIRDJF WPLDY XVLQJ UHDJHQWV IRU GHOHWLQJ DWPR' (3

### 1RYHO /LQNHURORJ\ 7RZDUGV +HWHURE 3URWDFV DQG \$QWLERG\ 'UXJ &RQMXJD

# Engineering

'DWGDULYHQ GPHDFNLLVQLRQVWUDWHJLHVIRU I

### 6LJQDO SURFHVVLQJ IRU ZLUHOHVV FRF FRPPXQLFDWLRQ SDUDGLJPV (3

# \$SSOLFDWLRQV RI + XPDQ \$FWLYLW\ 5HF

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### \$GYDQFHG PDWHULDOV DXWRPDWLRQ [

2SWLFDO & RPPXQLFDWLRQ DQG , QWHU & RPPXQLFDWLRQ (3

# (QKDQFLQJ WKH SUHGLFWLRQ RI ORFRP

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# , PSURYLQJ JDV WXUELQH HQJLQH VWUX

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# 8QORFNLQJ KLJK

# \$ URERWLF EUHDVW FDQFHU SDOSDWLR WUDLQLQJ DQG DZDUHQHVV HIIRUWV (;

 $RQWURO PHWKRGV IRU \mu H[FLWDEOH <math display="inline">\$  UXQDZD  $\$  DQG UHDFWLRQV RI QHZ ]HUR

(QHUJ\ QHWZRUN UHVLOLHQFH DQG UHC FKDQJH (3

### 'HYHORSLQJVD\VUVRHERWIRD XOWUDVRXQG ' UKHXPDWRLG DUWKULWLV (3

# +LJK SUHFLVLRQ URERWLFV DQG VHQVL

Informatics



#### \$FWLYH YLVXDO OHDUQLQJ (3

& RPSXWDWLRQDO DQG ELRORJLFDO SHU FDQ VRHUODQLVH WR SURGXFH UREXVW [ EHKDYLRXU (3



# 6XVVH[ & HQWUH IRU & RQVFLRXVQHVV 6



### /HYHUDJLQJ PDFKLQH OHDUQLQJ 0/ WI V\QWKHVLV FKDOOHQJHV LQ WLPHG OR,

# (YHQEVOVHG PDFKLQH OHDUQLQJ DQG QH (3

<

- < <
- <

#### +XPDQRPSXWHU LQWHUDFWLRQ ZLWK D OHDUQLQJ DQG HGXFDWLRQ (3

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, Q W H J U(D SVOLDQLJQ D E O H \$ U W L I L F L D O , Q W H ( 'H W H F W L R Q 6 \ V W H P V W R R I I H U P R U H W I H I I H F W L Y H G H W H F W L R Q R I F \ E H U D W W D I

#### 8QGHUVWDQGLQJ WKH G\QDPLFV RI ODC WKHFFURHDWLRQ RI SDWKZD\V WRZDUGV ' (3

#### 'HYHORS QHZ PRGHOV DQG GDWD VHWV FKDOOHQJHV LQ WKH UHFRJQLWLRQ RI

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# 1 DWXUDO /DQJXDJH 3URFHVVLQJ IRU ,P $3HRSOH \PV 0HQWDO +HDOWK$ (3

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#### \$GYDQFLQJPHFKDQLVWLFXQCGHUQOODQO DQDO\WLFDOBDQ\GHSKRVDLFFKVLQHOHDUQLQ

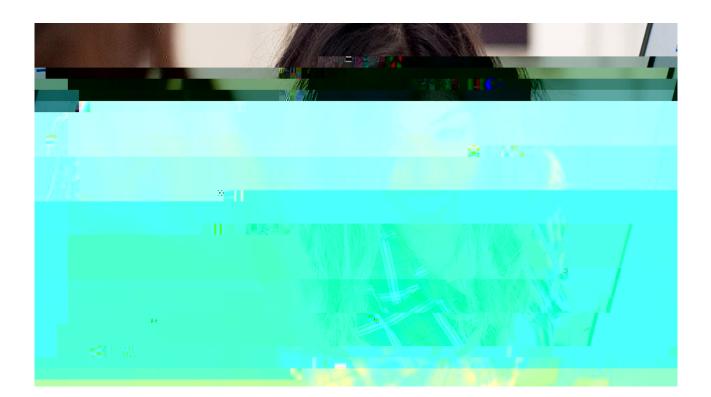
#### \$SSOLHG DQG QXPHUQRDOOLDOQHDOOU\VSLD/UMRI HTXDWLRQV ZLWK DSSOLFDWLRQV WR F

2SWLPDO WUDQVSRUW PDSV IRU PRGHO (3

## 0 D W K H P D W L F D O P R G H O O L Q J W R H [SOR L P L F U R E L D O L Q W GH LUYDHFUWLLRWQ\VL D QWG K H V R L (3

# 1XPHULFDO \$QDO\VLV RI 3DUWLDO 'LIIH

#### 0 D W K H P D W L F D O D Q G F R P S X W D W L R Q D O 3 D U W L D O 'L I I H U H Q W L D O (T X D W L R Q V (3





# Physics

## 1 DQRPDWHULDOV LQFOXGLQJ JUDSKHQF UDQJH RI QDQRWHFKQRORJLHV DQG GH

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