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### Physical Chemistry

Ruth E. Stark  
*CUNY City College*

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## Chemistry 33000 – Physical Chemistry: Thermodynamics

Text: Libretexts (<https://LibreTexts.org>) Textmap for *Physical Chemistry: A Molecular Approach* by D.A. McQuarrie & J.D. Simon, 2020  
Professor Ruth E. Stark; Fall, 2021

Date	Chapter	Topics	Assigned Problems
T 08/xx: 16a Th 08/xx: 16b	16	Properties of Gases; Zeroth Law of Thermodynamics	<u>TBD</u>
<i>[DATE</i>	<i>no class</i>	<i>Labor Day]</i>	
DATE: 19a DATE: 19b <b>(M 09/10)</b>	19 <b>(cancelled)</b>	The First Law of Thermodynamics	<b>W 09/05:</b> 1.2, 1.4, 1.6, 1.10, 1.13, 1.17, 1.20, 1.21, 1.25, 1.31, 1.34, 1.36, 1.38
<i>[DATE,</i> <i>DATE</i>	<i>no class</i>	<i>Rosh Hashanah]</i>	
DATE: 19c DATE: 19d DATE: 19e	19 (cont'd)		<b>(T) 09/18:</b> 2.2, 2.10, 2.11, 2.12, 2.27, 2.48ab
<i>/DATE</i>	<i>no class</i>	<i>Yom Kippur]</i>	
DATE 19f			
DATE:	REVIEW		<b>M 09/24:</b> 2.4, 2.9, 2.14, 2.17, 2.20, 2.26, 2.31, 2.34, 2.35, 2.40, 2.43, 2.54, 2.64
DATE	<b>16, 19</b>	<b>EXAM I</b>	
DATE: 20a DATE: 20b DATE: 20c	20	Entropy & The Second Law	<b>F 10/05:</b> 3.1, 3.3, 3.8, 3.12, 3.14
<i>/DATE</i>	<i>no class</i>	<i>Columbus Day]</i>	
DATE 20d	20 (cont'd)		
<b>(DATE)</b> DATE: 21a DATE: 21b	21	Entropy & The Third Law	<b>F 10/12:</b> 3.18, 3.23, 3.27, 3.37, 3.33, 3.40
DATE: 22a DATE: 22b DATE: 22c	22	Helmholtz & Gibbs Energies; REVIEW	<b>M 10/22:</b> 4.3, 4.7, 4.11, 4.14, 4.17, 4.26, 4.34, 4.38, 4.40, 4.43, 4.49
DATE	<b>20, 21, 22</b>	<b>EXAM II</b>	
DATE: 23a DATE: 23b DATE: 23c DATE: 23d	23	Phase equilibria	
DATE: 24a DATE: 24b DATE: 24c DATE: 24d DATE: 25a	24	Solutions I - Liquid- Liquid Solutions	<b>F 11/09:</b> 5.2, 5.6, 5.9, 5.17, 5.22, 5.23, 5.29, 5.33, 5.40, 5.49, 5.52, 5.59, 5.67, 5.68, 5.86
DATE		REVIEW	<b>F 11/16:</b> 6.2, 6.4, 6.7, 6.13, 6.20, 6.23, 6.27, 6.37, 6.43, 6.52, 6.54, 6.58, 6.68, 6.74, 6.89
DATE	<b>23, 24</b>	<b>EXAM III</b>	
<i>/DATE</i>	<i>no class</i>	<i>Thanksgiving]</i>	
DATE: 25b	25	Solutions II – Solid-	

DATE: 7c DATE: 7d		Liquid Solutions	
DATE: 8a DATE: 8b DATE: 8c	26	Chemical Equilibrium with Applications to Biochemistry	<b>W 12/05:</b> 7.5, 7.8, 7.11, 7.18, 7.28, 7.33, 7.48, 7.50, 7.53, 7.62
DATE DATE		<b>FINAL REVIEW</b>	<b>W 12/12:</b> 8.11, 8.13, 8.17, 8.21, 8.28, 8.42
<b>12/mn</b>	<b>16; 19-26</b>	<b>FINAL EXAM</b>	