

EM 120

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## Statics (Vector Mechanics)

## Calendar

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| class | date   | subjects                             | reading | cwr                  | prob                 | due         |
|-------|--------|--------------------------------------|---------|----------------------|----------------------|-------------|
| 01 M  | Mar 07 | Introduction                         | 1.1-1.6 | <a href="#">C-01</a> |                      |             |
| 02 T  | 08     | Addition and Resolution of Forces    | 2.1-8   | <a href="#">C-02</a> | <a href="#">P-02</a> | -           |
| 03 R  | 10     | Equilibrium of a Particle            | 2.9-11  | <a href="#">C-03</a> | <a href="#">P-03</a> | <b>P-02</b> |
| 04 F  | 11     | Forces in Space                      | 2.12-14 | <a href="#">C-04</a> | <a href="#">P-04</a> | <b>P-03</b> |
| 05 M  | 14     | Equilibrium in Space                 | 2.15    | <a href="#">C-05</a> | <a href="#">P-05</a> | <b>P-04</b> |
| 06 T  | 15     | Equilibrium in Space                 | 2.15    | <a href="#">C-06</a> | <a href="#">P-06</a> | <b>P-05</b> |
| 07 R  | 17     | Vector Product; Moment about a Point | 3.1-8   | <a href="#">C-07</a> | <a href="#">P-07</a> | <b>P-06</b> |
| 08 F  | 18     | Vector Product; Moment about an Axis | 3.9-11  | <a href="#">C-08</a> | <a href="#">P-08</a> | <b>P-07</b> |
| 09 M  | 21     | Couples                              | 3.12-16 | <a href="#">C-09</a> | <a href="#">P-09</a> | <b>P-08</b> |
| 10 T  | 22     | <b>Exam 1 - /e 1-8</b>               |         |                      |                      |             |
| 11 R  | 24     | Equivalent Systems of Forces         | 3.17-20 | <a href="#">C-11</a> | <a href="#">P-11</a> | <b>P-09</b> |
| 12 F  | 25     | Equilibrium in Two Dimensions        | 4.1-4   | <a href="#">C-12</a> | <a href="#">P-12</a> | <b>P-11</b> |
| 13 M  | 28     | Equilibrium in Two Dimensions        | 4.1-4   | <a href="#">C-13</a> | <a href="#">P-13</a> | <b>P-12</b> |
| 14 T  | 29     | Two- and Three-Force Bodies          | 4.6-7   | <a href="#">C-14</a> | <a href="#">P-14</a> | <b>P-13</b> |
| 15 R  | 31     | Equilibrium in Three Dimensions      | 4.8-9   | <a href="#">C-15</a> | <a href="#">P-15</a> | <b>P-14</b> |
| 16 F  | Apr 01 | Equilibrium in Three Dimensions      | 4.8-9   | <a href="#">C-16</a> | <a href="#">P-16</a> | <b>P-15</b> |
| 17 M  | 11     | Trusses: Method of Joints            | 6.1-5   | <a href="#">C-17</a> | <a href="#">P-17</a> | <b>P-16</b> |
| 18 T  | 12     | Trusses: Method of Sections          | 6.7-8   | <a href="#">C-18</a> | <a href="#">P-18</a> | <b>P-17</b> |
| 19 R  | 14     | Analysis of Frames                   | 6.9-11  | <a href="#">C-19</a> | <a href="#">P-19</a> | <b>P-18</b> |
| 20 F  | 15     | <a href="#">Project Workday</a>      |         | <a href="#">C-20</a> |                      | <b>P-19</b> |
| 21 M  | 18     | Analysis of Machines                 | 6.12    | <a href="#">C-21</a> | <a href="#">P-21</a> |             |
| 22 T  | 19     | <b>Exam 2 - /e 9-19</b>              |         |                      |                      |             |
| 23 R  | 21     | Frames and Machines                  | 6.9-12  | <a href="#">C-23</a> | <a href="#">P-23</a> | <b>P-21</b> |
| 24 F  | 22     | Frames and Machines                  | 6.9-12  | <a href="#">C-24</a> | <a href="#">P-24</a> | <b>P-23</b> |
| 25 M  | 25     | Centroids and First Moments          | 5.1-5   | <a href="#">C-25</a> | <a href="#">P-25</a> | <b>P-24</b> |
| 26 T  | 26     | Centroids by Integration             | 5.6     | <a href="#">C-26</a> | <a href="#">P-26</a> | <b>P-25</b> |
| 27 R  | 28     | Internal Forces in Members           | 7.1-2   | <a href="#">C-27</a> | <a href="#">P-27</a> | <b>P-26</b> |
| 28 F  | 29     | <a href="#">Project Work Day</a>     |         | <a href="#">C-28</a> |                      |             |
| 29 M  | May 02 | Beams                                | 7.3-5   | <a href="#">C-29</a> | <a href="#">P-29</a> | <b>P-27</b> |
| 30 T  | 03     | Beams                                | 7.6     | <a href="#">C-30</a> | <a href="#">P-30</a> | <b>P-29</b> |
| 31 R  | 05     | Area Moments of Inertia              | 9.1-5   | <a href="#">C-31</a> | <a href="#">P-31</a> | <b>P-30</b> |
| 32 F  | 06     | <a href="#">Project Work Day</a>     |         | <a href="#">C-32</a> |                      |             |

|           |          |                                       |                      |   |
|-----------|----------|---------------------------------------|----------------------|---|
| <b>33</b> | <b>M</b> | 09 Parallel Axis Theorem              | 9.6-7                | <a href="#">C-33</a> <a href="#">P-33</a> <b>P-31</b> |
| <b>34</b> | <b>T</b> | 10 <b>Exam 3 - le 20-32</b>           |                      |   |
| <b>35</b> | <b>R</b> | 12 <del>Mass Moments of Inertia</del> | <del>9.11-9.15</del> | <a href="#">C-35</a> <b>P-33</b>                      |
| <b>36</b> | <b>F</b> | 13 Project Work Day                   |                      | <a href="#">C-36</a>                                  |
| <b>37</b> | <b>M</b> | 16 Truss Assembly Day                 |                      | <a href="#">C-37</a>                                  |
| <b>38</b> | <b>T</b> | 17 Truss Assembly Day                 |                      | <a href="#">C-38</a>                                  |
| <b>39</b> | <b>R</b> | 19 Truss Bust Day                     |                      | <a href="#">C-39</a>                                  |
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