Work the following problems from Nelson, Nagle, Carroll, and Irwin. Show your work.

8.13 (a)
8.15
9.1 (b) or (c)
9.2 (c)
9.6
9.11

Due – Tuesday, April 9, at the beginning of class.

<table>
<thead>
<tr>
<th></th>
<th>I</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B/0</td>
<td>A/1</td>
</tr>
<tr>
<td>B</td>
<td>C/0</td>
<td>A/0</td>
</tr>
<tr>
<td>C</td>
<td>C/0</td>
<td>B/0</td>
</tr>
</tbody>
</table>

A = D
B = E
9.2) By partitioning

\[ P_0 = (A\overline{B}C\overline{D}E\overline{F}) \]
\[ P_1 = (A\overline{B}E\overline{F})(C\overline{D}) \]
\[ P_2 = (A\overline{B}XE\overline{F})(C\overline{D}) \]
\[ P_3 = (A\overline{B}E\overline{F})(C\overline{D}) \]

\[ \therefore A = B, E = F \]

9.6

\[ B \]
\[ C \]
\[ D \]
\[ E \]
\[ F \]
\[ G \]
\[ H \]

\[ \therefore A = C = F = H \]

9.11

Rule 1: \( A \overline{D}, B \overline{C}, B \overline{E}, C \overline{E} \)

Rule 2: \( B \overline{E}, A \overline{D}, B \overline{C} \)

Cannot meet all adjacencies. Use those suggested by both rules.

\[ \begin{array}{cccc}
00 & 01 & 11 & 10 \\
A & B & C & D \\
\hline
0 & 1 & 0 & 0 \\
B & D & B & 0 \\
\end{array} \]

\[ A \rightarrow 000 \]
\[ B \rightarrow 001 \]
\[ C \rightarrow 011 \]
\[ D \rightarrow 100 \]
\[ \overline{E} \rightarrow 101 \]