# TABLE of CONTENTS

<table>
<thead>
<tr>
<th>SECTION</th>
<th>CONTENT</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>Background</td>
<td>1</td>
</tr>
<tr>
<td>B.</td>
<td>GPS Terms</td>
<td>2</td>
</tr>
<tr>
<td>C.</td>
<td>Using a GNS 430 for the First Time</td>
<td>4</td>
</tr>
<tr>
<td>D.</td>
<td>Controls</td>
<td>5</td>
</tr>
<tr>
<td>II.</td>
<td>Basic Operations</td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>Tuning Frequencies</td>
<td>9</td>
</tr>
<tr>
<td>B.</td>
<td>Direct-To</td>
<td>10</td>
</tr>
<tr>
<td>III.</td>
<td>Flight Plans</td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>Creating a Flight Plan</td>
<td>11</td>
</tr>
<tr>
<td>B.</td>
<td>Activating a Flight Plan</td>
<td>12</td>
</tr>
<tr>
<td>C.</td>
<td>Deleting a Flight Plan</td>
<td>13</td>
</tr>
<tr>
<td>D.</td>
<td>Deleting a Waypoint</td>
<td>13</td>
</tr>
<tr>
<td>E.</td>
<td>Adding a Waypoint</td>
<td>14</td>
</tr>
<tr>
<td>F.</td>
<td>Nearest Airport</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Direct-To a Waypoint in Flight Plan</td>
<td>15</td>
</tr>
<tr>
<td>G.</td>
<td>Direct-To a New Destination</td>
<td>16</td>
</tr>
<tr>
<td>H.</td>
<td>Storing the Active Flight Plan</td>
<td>17</td>
</tr>
<tr>
<td>I.</td>
<td>SID's</td>
<td>18</td>
</tr>
<tr>
<td>J.</td>
<td>STAR's</td>
<td>19</td>
</tr>
<tr>
<td>K.</td>
<td>RAIM Prediction</td>
<td>20</td>
</tr>
<tr>
<td>L.</td>
<td>Vertical Navigation</td>
<td>21</td>
</tr>
<tr>
<td>M.</td>
<td>User Waypoints</td>
<td>23</td>
</tr>
<tr>
<td>N.</td>
<td>OBS Mode</td>
<td>27 A</td>
</tr>
<tr>
<td>IV.</td>
<td>The GPS Approach</td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>Approaches</td>
<td>28</td>
</tr>
<tr>
<td>B.</td>
<td>Vectors-to-Final</td>
<td>31</td>
</tr>
<tr>
<td>C.</td>
<td>Procedure Turns</td>
<td>31</td>
</tr>
<tr>
<td>D.</td>
<td>Holding - Part of Approach</td>
<td>32</td>
</tr>
<tr>
<td>E.</td>
<td>Holding - Not Part of Approach</td>
<td>33</td>
</tr>
<tr>
<td>F.</td>
<td>DME Arc Approach</td>
<td>34</td>
</tr>
<tr>
<td>G.</td>
<td>ILS Approach</td>
<td>34 A</td>
</tr>
</tbody>
</table>
## V. Appendixes

<table>
<thead>
<tr>
<th>CONTENT</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Default NAV Page (NAV 1)</td>
<td>35</td>
</tr>
<tr>
<td>B. MAP Page (NAV 2)</td>
<td>37</td>
</tr>
<tr>
<td>C. Terrain Page (NAV 3)</td>
<td>42 A</td>
</tr>
<tr>
<td>C. NAVCOM Page (NAV 3)</td>
<td>42</td>
</tr>
<tr>
<td>D. Position Page (NAV 5)</td>
<td>43</td>
</tr>
<tr>
<td>E. Airport Location (WPT 1)</td>
<td>44</td>
</tr>
<tr>
<td>Airport Runways (WPT 2)</td>
<td>44</td>
</tr>
<tr>
<td>F. Airport Frequency (WPT 3)</td>
<td>45</td>
</tr>
<tr>
<td>G. Airport Approach Page (WPT 4)</td>
<td>46</td>
</tr>
<tr>
<td>H. Nearest Airport Page (NRST 1)</td>
<td>47</td>
</tr>
</tbody>
</table>

## VI. Page Descriptions

<table>
<thead>
<tr>
<th>CONTENT</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. NAV Pages</td>
<td>48</td>
</tr>
<tr>
<td>J. Waypoint Pages</td>
<td>49</td>
</tr>
<tr>
<td>K. Aux Pages</td>
<td>50</td>
</tr>
<tr>
<td>L. Nearest Pages</td>
<td>51</td>
</tr>
</tbody>
</table>