Literature Review

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Why Literature Search?

• To make a base for research.
• To gain knowledge in the relevant field
• To know the progress already made in the relevant field (State of the Art)
• To make sure that you are in right path
• To identify the gap and to get the motivation for the study
• To relate your results and publish in relevant journals
Where to Search for Literature?

• International Journals (on-line & off-line)
• Conference Proceedings
• Books
• Internet (be more careful for correctness)
• White papers, in-house publications and documents
• News papers, magazines, etc.,
Steps involved in Literature Review

• Searching for good sources and collecting papers
• Sorting and Prioritising the papers
• First reading of papers and making notes
• Critical Reading and marking the highlights
• Comparative study of noted literature
• Writing the literature review with critical comments
Collection of Information from Literature

• Prepare notes from each paper read
• Read the paper several times and understand the concept clearly
• Note the major points from this paper in the words of authors
• Add your critics to the paper
• Prepare a ready reckoner for the papers referred
• Literature review is a continues process and will continue even after the thesis is submitted to note the developments made in the relevant field
Collection of Information from Literature

- Prepare a ready reckoner in a suitable format as shown below
- This can be recorded in a A3 paper to include all the relevant information
- This reckoner will be of great help throughout the research studies and even afterwards

<table>
<thead>
<tr>
<th>Authors &amp; Title of Paper</th>
<th>Type of Study</th>
<th>Tools Used</th>
<th>Methodology used</th>
<th>Major Results</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lin et al.</td>
<td>Analytical and Numerical</td>
<td>Fourier Transforms and Finite Differences</td>
<td>Governing equations solved in both the methods</td>
<td>Identification of limitation of both methods</td>
<td>Comparative study of both methods</td>
</tr>
<tr>
<td>Shaw and Shaw</td>
<td>Expt.</td>
<td>Laser light scattering technique</td>
<td>Measurement of dropsizes in spray and characterisation</td>
<td>Dropsize distribution under varying conditions</td>
<td>Linking of flow parameters to spray characteristics</td>
</tr>
</tbody>
</table>
How to Write a Good Literature Review?

• Do not write annotated review:

Ex: (poor literature review)

Yehia A Eldrainy et.al [3] worked on multiple inlet swirler for gas turbine combustors. This new swirler introduces air tangentially .......

• Write a synthesis of the literature

The comparative study of relevant literature is a must instead of recording of several statements from literature.
How to Write a Good Literature Review?

• Do not just record the observations made in the paper
• Instead add your comments and critics
• Literature review must be of great help in identifying the procedure, tools and methodology used etc.. hence, the literature review spreads across the entire thesis/paper
Search Engines for Research Papers?

- http://citeseerx.ist.psu.edu/
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http://www.emergingedtech.com/