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<td>1.</td>
<td>Vamsi Krishna Pelluru</td>
<td>Application Detection System</td>
<td>Across the Globe companies are finding ways to maximize their productivity with infrastructure and Resources, Application Detection system helps companies achieve it, it also helps administrators in identifying which are the applications that are more commonly used across the corporate, those applications can be blocked to use from the networks, Most of the employees spent considerable time in office on Browsing Social Networking sites eg; Face Book, Orkut, LinkedIn etc, Application Detection system helps administrators in identifying the Source machines from which these requests arise, it generates the logs with the source machine IP, Application name , its pattern etc, based on the pattern the corresponding signature will be triggered and it will either block or allow the application based on the configuration provided to it.</td>
<td>Application detection System, Signatures.</td>
<td>1. <a href="http://www.pcworld.com/article/249137/what_is_deep_packet_inspection.html">http://www.pcworld.com/article/249137/what_is_deep_packet_inspection.html</a> 2. <a href="http://www.deeppacketinspection.ca/">http://www.deeppacketinspection.ca/</a></td>
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<td>3.</td>
<td>Manmohan Soni, Sankalp Verma</td>
<td>Thermal Analysis of Blast Furnace Cooling Stave Using CFD</td>
<td>Blast furnace Cooling Systems have been developing since 1884. Earlier (till 1920's) the cooling was applied only to hearth and bosh areas. By 1930’s and 1940’s, cooling was also applied to the shaft. Simultaneously, external cooling methods like shower and jacket cooling of the furnace shell were tried. This method relied on extracting the heat through the furnace shell to the cooling medium, generating high thermal stresses during the heat transfer and hence jeopardizing the integrity of the shell. The main purpose of cooling system is to enhance the furnace campaign life. If heat transfer, thermal stress and furnace campaign life all such parameters should not be analyzed it may lead to catastrophic failure of Blast furnace. This Paper deals with the computational analysis of three-dimensional model of blast furnace stave, using FEV tool ANSYS FLUENT. Where the inner wall are heated up linearly, due to molten metal inside the furnace and the outer wall is been exposed to ambient condition with the maximum temperature TH and the minimum temperature with Tc The present computational investigation deals with Heat transfer analysis in blast furnace cooling stave and the parametric analysis such as the cooling channel inter-distance, coating layer diameter, coating distance on the external surface, cooling water velocity, etc is been done and the effect of</td>
<td>1. Blast furnace Cooling Stave Using CFD</td>
<td>1. <a href="http://www.deeppacketinspection.ca/">http://www.deeppacketinspection.ca/</a> 2. <a href="http://www.pcworld.com/article/249137/what_is_deep_packet_inspection.html">http://www.pcworld.com/article/249137/what_is_deep_packet_inspection.html</a></td>
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them in heat transfer of stave or stave performance is been justified. The temperature distribution and flow pattern across the cavities were visualized. The FEV results are validated with well published results in literature and furthermore with experimentation. Results are first presented in the form of streamlines, isotherm contours, thermal stress, and Temperature difference.

3. **Keywords:** Blast Furnace Stave, CFD, Heat Transfer.

**References:**

