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By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 110 pages. Original publisher: Golden, Colo. : National Renewable Energy Laboratory, 2005 OCLC Number: (OCoLC)180878650 Subject: Fuel cells -- Research. Excerpt: . . . Figure 4 shows the breakdown in the stack costs for 2005. The electrode contribution dominates because of the increased platinum loading and price, while the other components decreased in percent contribution and in cost per area because of reductions in material costs and the amount of material (thinner layers). The report details these changes. The top three cost drivers for the stack and the system are: Power density Platinum cost Platinum loading Power density drives the size of the overall stack, while the product of platinum cost and loading determines the cost of the electrodes, the largest stack cost. Single cell power densities in the literature are higher than the selected value, but these values are derated in the stack to minimize hot spots and degradation. Increases in platinum cost and loading offset the decreases in other cell components and the increase in power density. BOS Final 2 Seal Assembly 2 3 Membrane Bipolar 6 Plate 5 GDL 5 Electrode 77 Figure...

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