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The Dominant Role of the User in Semiconductor and Electronic Subassembly Process Innovation (Classic Reprint)

By Eric Von Hippel

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Dominant Role of the User in Semiconductor and Electronic Subassembly Process Innovation In an earlier study of scientific instrument innovations, we found that instrument users rather than instrument manufacturers dominated the innovation work in approximately 80 of the innovation cases studied. In the present paper, we extend this work by examining 55 process innovations used in the manufacture of semiconductors and electronic subassemblies. In 67 of the process innovations studied in this field which involved novel process machinery, we find that it is the process machinery user rather than the manufacturer who dominates the innovation process by: recognizing the need; inventing a solution; building a prototype; and using the prototype in commercial production prior to any involvement of a manufacturer of process machinery in the innovation work. The presence of a mix of user-dominated and manufacturer dominated innovation cases in our sample manufacturer dominated innovation embraces those innovation cases in which the maximum user contribution was recognition of need) allowed us to test various parameters which we hoped would discriminate between these two innovation...



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