



# Of Bicycles, Bakelites, and Bulbs: Toward a Theory of Sociotechnical Change (Inside Technology)

By Wiebe E. Bijker

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## Of Bicycles, Bakelites, and Bulbs: Toward a Theory of Sociotechnical Change (Inside Technology) By Wiebe E. Bijker

This book crystallizes and extends the important work Wiebe Bijker has done in the last decade to found a full-scale theory of sociotechnical change that describes where technologies come from and how societies deal with them. *Of Bicycles, Bakelites, and Bulbs* integrates detailed case studies with theoretical generalizations and political analyses to offer a fully rounded treatment both of the relations between technology and society and of the issues involved in sociotechnical change.

The stories of the the safety bicycle, the first truly synthetic plastic, and the fluorescent light bulb -- each a fascinating case study in itself -- reflect a cross section of time periods, engineering and scientific disciplines, and economic, social, and political cultures. The bicycle story explores such issues as the role of changing gender relationships in shaping a technology; the Bakelite story examines the ways in which social factors intrude even in cases of seemingly pure chemistry and entrepreneurship; and the fluorescent bulb story offers insights into the ways in which political and economic relationships can affect the form of a technology.

Bijker's method is to use these case studies to suggest theoretical concepts that serve as building blocks in a more and more inclusive theory, which is then tested against further case studies. His main concern is to create a basis for science, technology, and social change that uncovers the social roots of technology, making it amenable to democratic politics.

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### **Editorial Review**

#### Review

Bijker has provided a useful text demonstrating the advantages of opening up technological phenomena to relativist inquiry...a valuable contribution to the important goal of redefining the relation between the technical and the nontechnical.

(**Steve Woolgar** *New Scientist*)

#### From the Back Cover

'Of Bicycles, Bakelights, and Bulbs' integrates three fascinating case studies with sociological and political analysis to offer an integrated theory both of relations between technology and society and of the issues involved in sociotechnical change.

#### About the Author

Wiebe E. Bijker is Professor at Maastricht University and the author of *Of Bicycles, Bakelites, and Bulbs: Toward a Theory of Sociotechnical Change* (MIT Press) and other books.

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