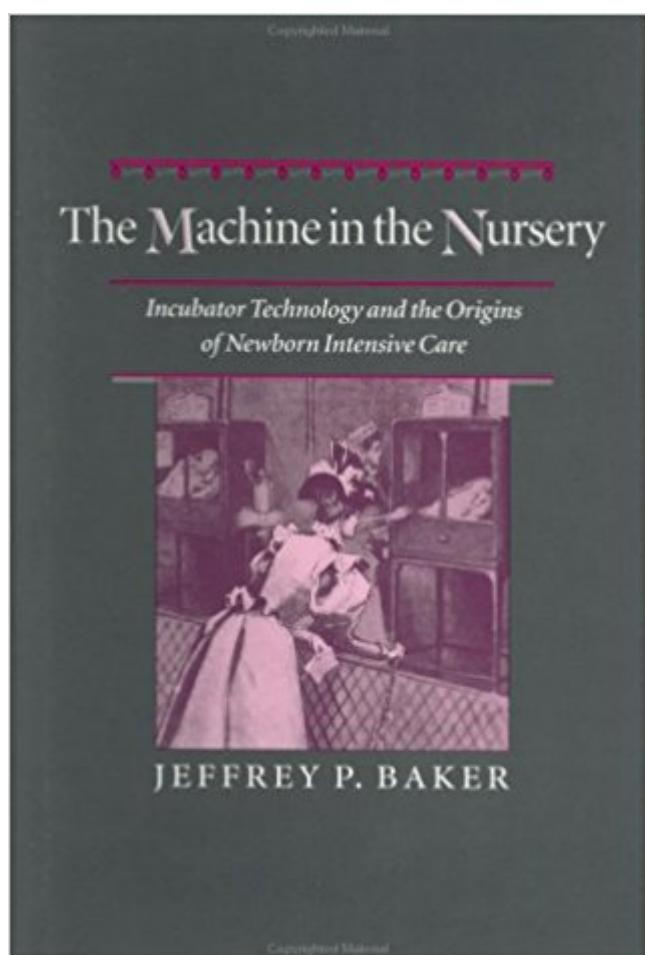


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The Machine In The Nursery: Incubator Technology And The Origins Of Newborn Intensive Care (Johns Hopkins Studies In The History Of Technology)



Synopsis

In the late nineteenth century French obstetricians reported that a new medical device, the infant incubator, made possible the rearing of premature infants whose prospects until then had been nearly hopeless. The announcement set off a wave of enthusiasm that swept the United States. Hospitals opened the first premature infant nurseries, and incubator shows (complete with live infants) opened in numerous public fairs and expositions. Yet Americans did more than adopt the incubator; they reinvented it in the process. A simple domestic warming device became a complex life-support system intended to provide a complete artificial environment for the premature infant. In *The Machine in the Nursery* Jeffrey Baker examines the transformation that overtook the incubator after it arrived from France in the United States. He argues that the apparatus furnishes an example of how social and cultural factors can fundamentally alter the evolution of medical technology. The analysis centers on the interaction between the technology and its intended "target," the premature infant. To the extent that particular medical specialists in distinct institutions and cultures saw different populations of such infants, they were bound to interpret the incubator's purpose differently. The factors of institutional, professional, and national contextâ •along with that of genderâ •were of special importance in shaping physicians' attitudes. Taken together, these elements enable us to understand the complex "branching" pattern that characterized development of the incubator in the early twentieth century.

Book Information

Series: Johns Hopkins Studies in the History of Technology (Book 21)

Hardcover: 256 pages

Publisher: Johns Hopkins University Press; 1 edition (May 9, 1996)

Language: English

ISBN-10: 0801851734

ISBN-13: 978-0801851735

Product Dimensions: 9.3 x 6.4 x 0.8 inches

Shipping Weight: 1.3 pounds

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #846,278 in Books (See Top 100 in Books) #94 in Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Perinatology & Neonatology #144 in Books > Medical Books > Medicine > Internal Medicine > Pediatrics > Perinatology & Neonatology #232 in Books > Textbooks > Medicine & Health Sciences > Nursing > Clinical > Pediatric & Neonatal

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An adroit use of one case study to address a number of related themes in the history of medical technologies: how technologies are transferred, how technologies are transformed in the process of transfer, incorporating new designs and taking on new meanings along the way, and how devices can be invested with powerful symbolism for the many groups touched by a new technology.

(Technology and Culture)

Jeffrey P. Baker, M.D., Ph.D., is an associate in the Division of General Pediatrics, Duke University Medical Center.

amazingly thorough and thoughtful, Dr. Baker's book is the authority on the quirky path the incubator and its progeny have taken since the concept was first put to use.

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