Engineering a Safer World

Engineering Systems

Flexibility in Engineering Design, by Richard de Neufville and Stefan Scholtes, 2011

Engineering a Safer World, by Nancy G. Leveson, 2011

Engineering Systems, by Olivier L. de Weck, Daniel Roos, and Christopher L. Magee, 2011

ENGINEERING A SAFER WORLD

Systems Thinking Applied to Safety

Nancy G. Leveson

The MIT Press
Cambridge, Massachusetts
London, England

For information about special quantity discounts, please email special_sales@mitpress.mit.edu

This book was set in Syntax and Times Roman by Toppan Best-set Premedia Limited. Printed and bound in the United States of America.

Library of Congress Cataloging-in-Publication Data

Leveson, Nancy.
Engineering a safer world : systems thinking applied to safety / Nancy G. Leveson.
p. cm.—(Engineering systems)
Includes bibliographical references and index.
ISBN 978-0-262-01662-9 (hardcover : alk. paper)
1. Industrial safety. 2. System safety. I. Title.
T55.L466 2012
620.8′6—dc23
2011014046

10 9 8 7 6 5 4 3 2 1

We pretend that technology, our technology, is something of a life force, a will, and a thrust of its own, on which we can blame all, with which we can explain all, and in the end by means of which we can excuse ourselves.
—T. Cuyler Young, *Man in Nature*

To all the great engineers who taught me system safety engineering, particularly Grady Lee who believed in me. Also to those who created the early foundations for applying systems thinking to safety, including C. O. Miller and the other American aerospace engineers who created System Safety in the United States, as well as Jens Rasmussen's pioneering work in Europe.

Contents

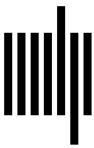
Engineering a Safer World

Systems Thinking Applied to Safety

By: Nancy G. Leveson

Citation:

Engineering a Safer World: Systems Thinking Applied to Safety
By: Nancy G. Leveson
DOI: 10.7551/mitpress/8179.001.0001
ISBN (electronic): 9780262298247
Publisher: The MIT Press
Published: 2016



The MIT Press

For information about special quantity discounts, please email special_sales@mitpress.mit.edu

This book was set in Syntax and Times Roman by Toppan Best-set Premedia Limited. Printed and bound in the United States of America.

Library of Congress Cataloging-in-Publication Data

Leveson, Nancy.
Engineering a safer world : systems thinking applied to safety / Nancy G. Leveson.
p. cm.—(Engineering systems)
Includes bibliographical references and index.
ISBN 978-0-262-01662-9 (hardcover : alk. paper)
1. Industrial safety. 2. System safety. I. Title.
T55.L466 2012
620.8′6—dc23
2011014046

10 9 8 7 6 5 4 3 2 1