Counterfeit Electronic Parts and Their Impact on Supply Chains
Other SAE books of interest:

**Automotive E/E Reliability**  
By John Day  
(Product Code: T-126)

**Multiplexed Networks for Embedded Systems**  
By Dominique Paret  
(Product Code: R-385)

**Electronic Control Systems**  
By Ross Bannatyne  
(Product Code: T-107)

For more information or to order a book, contact  
SAE INTERNATIONAL  
400 Commonwealth Drive,  
Warrendale, PA 15096-0001, USA;  
phone +1-877-606-7323 (U.S. and Canada only)  
or +1-724-776-4970 (outside U.S. and Canada);  
fax +1-724-776-0790;  
e-mail CustomerService@sae.org;  
Counterfeit Electronic Parts and Their Impact on Supply Chains

By Kirsten M. Koepsel
# Table of Contents

## Executive Summary

Chapter 1. The Nature of Counterfeit Electronic Parts

Introduction

*What Is an Electronic Part?*

*What Is a Counterfeit Electronic Part?*

*Why Should We Be Concerned About Counterfeit Electronic Parts?*

*Counterfeit Electronic Parts Can Drive Up Program Costs*

*Counterfeits May Not Always Be Detected by Testing*

*Counterfeits May Not Meet “Markings”*

*Availability of Counterfeit Electronics*

*Counterfeit Electronic Parts in the DoD Supply Chain*

*Senate Armed Services Committee Investigation*

*IHS Numbers on Counterfeit Electronic Parts*

*Customs and Border Protection Statistics*

*Number of Incidents Involving Counterfeit Electronic Parts*

*Where Do Counterfeit Electronic Parts Come From?*

Chapter 2. Counterfeit Electronic Parts Manufacturing and the Supply Chain

Introduction

*How Are Legitimate Electronic Parts Manufactured?*

*How Are Counterfeit Electronic Parts “Manufactured”?*

*What Is a Supply Chain?*

*How Are Electronic Parts Purchased by the Supply Chain?*

*Purchasing from the Original Component Manufacturer*

*Purchasing from the Authorized Distributor*

*Purchasing from the Independent Distributor*

*Life Cycle of Electronic Parts*

*Life Cycle of Aviation, Spacecraft, and Defense Products*

*How Do Counterfeit Electronic Parts Enter the Supply Chain?*