AMERICAN NATIONAL STANDARD

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Tapered Roller Bearings - Radial - Metric Design

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Secretariat

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CONTENTS

LIST OF TABLES

TABLE NUMBER **PAGE**

LIST OF FIGURES

FIGURE NUMBER **PAGE**

Tapered Roller Bearings — Radial Metric Design

1. SCOPE

This standard covers metric design radial tapered roller bearings of various types, part numbering systems, boundary dimensions, tolerances, and fitting practices. Tapered roller thrust bearings are covered in a separate ABMA standard.

General ABMA standards which apply to various types of bearings should be consulted for tolerance definitions, gauging practices, mounting accessories, and method of evaluating load ratings.

2. PART NUMBERING SYSTEMS

2.1 Reference Part Numbers. Bearings contained in the Boundary Dimension Tables (2-5) of this standard are identified with the reference part numbers and ISO Dimension Series designations described in Appendix A.

2.1.1 Individual Component Part Numbers. Unlike other bearing types, tapered roller bearing inner and outer rings are individually numbered. The inner ring is assembled with rollers and a cage, and when used with an outer ring, makes a complete bearing assembly. Both inner and outer ring part numbers are required to identify a complete bearing assembly. The inner ring number followed by the outer ring number is the preferred practice.

2.2 Existing Numbering Systems. Bearing manufacturers have used various part numbering systems. For reference purposes the more commonly used systems are described in Appendix A.