

**CLASSICAL AND  
MODERN MECHANISMS  
FOR ENGINEERS  
AND INVENTORS**

# Contents

<b>Preface</b>	<b>iii</b>
<b>1. Five Basic Mechanisms</b>	<b>1</b>
<b>2. Motion and Force Transmission in Linkages</b>	<b>11</b>
<b>3. The Slider Crank</b>	<b>28</b>
<b>4. Geneva and Star-Wheel Mechanisms</b>	<b>92</b>
<b>5. Planetary Gear Systems</b>	<b>145</b>
<b>6. Cycloidal Mechanisms</b>	<b>228</b>
<b>7. Chain-Driven Mechanisms</b>	<b>252</b>
<b>8. Screw Mechanisms</b>	<b>302</b>
<b>9. Clamping Mechanisms</b>	<b>350</b>
<b>10. Antibacklash Devices</b>	<b>364</b>
<b>11. Infinite-Variable-Speed Drives</b>	<b>371</b>
<b>12. Snap-Action Switching Mechanisms</b>	<b>385</b>
<b>13. Parallelogram Mechanisms</b>	<b>395</b>

<b>14. Gears, Gearing, and Noncircular Gears</b>	<b>420</b>
<b>15. Detent, Indexing, and Ratchet Mechanisms</b>	<b>459</b>
<b>16. Overload and Overrunning Clutches</b>	<b>495</b>
<b>17. Systematic Mechanism Design</b>	<b>507</b>
<b>General Bibliography</b>	<b>563</b>
<b>Bibliography: Planetary Gear Systems</b>	<b>573</b>
<b>Index</b>	<b>597</b>