# TABLE OF CONTENTS

## Foreword

---

**About the Volume**

---

## Chapter 1: Distributed Power Systems


2. **“Design Challenges for Distributed Power Systems,”** Fred C. Lee, Ming Xu, Shuo Wang, Bing Lu, *International Power Electronics and Motion Control Conference (IPEMC)*, Shanghai, China, August 14-16, 2006, PA1, 15 pages


## Chapter 2: Power Factor Correction


Chapter 3: Single-Stage AC/DC Converters

28  “Charge Pump Power-Factor-Correction Technologies Part I: Concept and Principle”
    2000, pp. 121-129................................................................. 199

29  “Charge Pump Power-Factor-Correction Technologies Part II: Ballast Applications,”
    2000, pp. 130-139................................................................. 208

30  “An Improved CCM Single-Stage PFC Converter with A Low-Frequency Auxiliary
    Switch,” Jindong Zhang, Fred C. Lee, Milan Jovanovic, *IEEE Transactions on Power
“Study and Analysis on A High-Frequency Current-Source Single-Stage PFC Converter”


Chapter 4: Isolated High-Voltage DC-DC Converters

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
<th>Conference/Event</th>
<th>Volume/Issue/Location</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td>“Design Consideration of The Active-Clamp Forward Converter with Current Mode Control During Large-Signal Transient,”</td>
<td>Qiong Li, Fred C. Lee</td>
<td>IEEE Transactions on Power Electronics, Vol. 18, No. 4</td>
<td>pp. 958 -965</td>
<td>323</td>
</tr>
<tr>
<td>46</td>
<td>“Improved Forward Topologies for DC-DC Applications with Built-in Input Filter,”</td>
<td>Ching-Shan Leu, Fred C. Lee, Ming Xu</td>
<td>CPES Power Electronics Conference, April 6-8, 2008, Blacksburg, VA</td>
<td>pp. 421-426</td>
<td>331</td>
</tr>
<tr>
<td>49</td>
<td>“LLC Resonant Converter for Front-End DC/DC Conversion,”</td>
<td>Bo Yang, Fred C. Lee, Alpha J. Zhang, Guisong Huang</td>
<td>IEEE Applied Power Electronics Conference and Exposition (APEC), March 10-14, 2002, Dallas, TX, Vol. 2</td>
<td>pp. 1108 - 1112</td>
<td>350</td>
</tr>
</tbody>
</table>


Author Index