This book is the first to cover all phases of heat sealing as it relates to packaging. Beginning with the basics of heat sealing processes and thermoplastic materials, the book explains, with numerous formulas and original experimental data, all the key parameters. With this information, the author presents new ways to improve the reliability of heat sealing—and the quality of heat-sealed packaging. Novel monitoring techniques are provided that enable packaging engineers to better control parameters that lead to safer, more effective seals in pouches, bags and cups, and with different materials, including laminates. Specifically, the author shows how important it is to have accurate measurement of the melting surface. The book explains techniques for carrying out such measurements and demonstrates how they lead to better heat seal process control. These techniques, along with novel ways of using the peel seal and tear seal, are explained in practical terms, to assist engineers to troubleshoot and eliminate problems encountered in heat sealing, e.g., overheating, polyball, and packaging failure. Hundreds of illustrations and numerous case studies support the practical information in this book. The technical data found in this resource is a necessary supplement to JIS and ASTM standards.

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Note: This book will be available Fall 2008. Please check our website at that time for more information and ordering. For other Packaging Products VISIT our website at www.destechpub.com
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About the Author
Dr. Kazuo Hishinuma is currently chief executive of Hishinuma Consulting in Kawasaki, Japan. Prior to this position he worked for Ajinomoto Company, Ltd. as an engineer. Dr. Hishinuma earned his doctorate at the University of Tokyo, and is the author of numerous articles and book chapters on the subject of heat sealing and packaging. In July of 2008 he will receive a major prize and grant from the Japanese Society of Packaging Science & Technology for his contributions to the advancement of heat sealing technology.

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