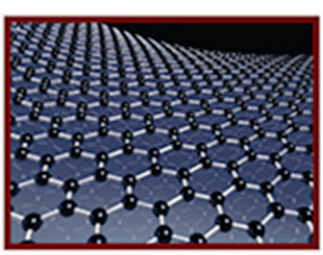
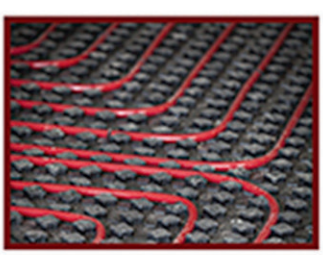
THERMAL ENERGY STORAGE TECHNOLOGIES FOR SUSTAINABILITY

SYSTEMS DESIGN, ASSESSMENT AND APPLICATIONS


S. KALAISELVAM AND R. PARAMESHWARAN

Thermal Energy Storage Technologies for Sustainability

This page intentionally left blank

Thermal Energy Storage Technologies for Sustainability

Systems Design, Assessment and Applications

by

S. Kalaiselvam
Department of Mechanical Engineering, Anna University, Chennai – 600 025, India

R. Parameshwaran
Department of Mechanical Engineering, Centre for Nanoscience and Technology, Anna University, Chennai – 600 025, India

ELSEVIER

AMSTERDAM • BOSTON • HEIDELBERG • LONDON
NEW YORK • OXFORD • PARIS • SAN DIEGO
SAN FRANCISCO • SINGAPORE • SYDNEY • TOKYO
Academic Press is an imprint of Elsevier

Academic Press is an imprint of Elsevier
32 Jamestown Road, London NW1 7BY, UK
525 B Street, Suite 1800, San Diego, CA 92101-4495, USA
225 Wyman Street, Waltham, MA 02451, USA
The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK

Library of Congress Cataloging-in-Publication Data
Kalaiselvam, S.
Thermal energy storage technologies for sustainability: systems design, assessment, and applications/by S. Kalaiselvam, R. Parameshwaran. – First edition.
pages cm
Includes index.
ISBN 978-0-12-417291-3
1. Heat storage devices. 2. Heat storage. I. Parameshwaran, R. II. Title.
TJ260.K255 2014
621.402'8–dc23

2014011943

British Library Cataloguing in Publication Data
A catalogue record for this book is available from the British Library

For information on all **Academic Press** publications
visit our web site at store.elsevier.com

Printed and bound in USA

ISBN: 978-0-12-417291-3

Contents