

TABLE OF CONTENTS

INTRO

CHAPTER 1

WHAT THE HECK IS SUSTAINABLE DESIGN?

LOCATION, LOCATION, LOCATION

CHAPTER 2

**SOME MORE, YET WACKY, HEATING IDEAS
KOREAN ONDOL FLOOR HEATING SYSTEM**

CHAPTER 3

**THE TROMBE WALL
THE WATER WALL
GEOTHERMAL HEATING**

**SOME MORE, YET WACKY, COOLING IDEAS
PROJECT: LET'S MAKE AN ADOBE BRICK
VENTILATION**

CHAPTER 4

**HOW AN EARTH TUBE WORKS
ROOF POND
WIND COOLING
HOW A WINDCATCHER WORKS**

WATER, WATER EVERYWHERE AND LOTS OF DROPS TO DRINK

EVERYONE LIKES A LITTLE HOT WATER EVERY ONCE IN A WHILE

CHAPTER 6

SOLAR WATER HEATERS

THE ROCKET STOVE

POOL WATER HEATER

THE PARABOLIC WATER HEATER

MAKE YOUR OWN ELECTRICITY AND THEY'LL PAY YOU FOR IT

CHAPTER 7

SOLAR PANELS

OFF THE GRID SOLAR ELECTRICITY

WIND POWER

PROJECT: LET'S MAKE A WIND TURBINE

HYDROPOWER

CHAPTER 8

RECYCLE, REUSE, AND RELAX

PROJECT: LET'S MAKE PAPER WOOD

PLANTING AND EATING STUFF

ATTACHED GREENHOUSE

WATERING THE PLANTS

COMPOSTING

AEROBIC COMPOSTING

ANAEROBIC COMPOSTING

VERMICOMPOSTING

HOW A WORM COMPOSTER WORKS

COMPOSTING TOILET

HOW A COMPOSTING TOILET WORKS

CHAPTER 9

CHAPTER 10

**ITSY BITSY TEENY WEENY TINY HOUSES
THE SHIPPING CONTAINER HOUSE
TINY HOUSE TIPS AND TRICKS**

**SUSTAINABLE HOUSE EXTRAS, INSIDE AND OUT
THE FRIDGE**

ECO-WASHING MACHINE

WOOD BURNING STOVE

THE ELECTRIC VEHICLE

PROJECT: LET'S MAKE A SOLAR CAR

CHAPTER 11

**LET'S DESIGN OUR OWN SUSTAINABLE HOUSE
PASSIVE/ACTIVE SOLAR HEATING AND COOLING MATERIALS**

SOLAR, WIND, WATER ELECTRICITY MATERIALS

GARBAGE DISPOSAL/TREATMENT MATERIALS

LOCAL & RECYCLED MATERIALS

WATER HARVESTING /RAIN COLLECTION MATERIALS

FOOD PRODUCTION/GREENHOUSE MATERIALS

HOUSE EXTERIOR MATERIALS

HOUSE INTERIOR MATERIALS

THE EXTRA STUFF

POSITIONING THE STRUCTURE ON SITE

COMING UP WITH A FLOOR PLAN

MAKING CHA CHA CHA...CHANGES

PROJECT: LET'S SAVE WATER RIGHT NOW

ELEVATION DRAWINGS

CROSS-SECTION DRAWINGS

THE TROMBE WALL EXPERIMENT

CHAPTER 12

COCLUSION

GLOSSARY