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Royal Society of Chemistry,
an increasing number of
contributions is concerned
with reactions in complex
liquids, where the solvents
cannot be regarded as
homogeneous media but where
their microstructure has to
be taken into account. In
order to summarize the
different aspects of those
solvents, the 1988 meeting of
the group has been held as a
symposium devoted to
"Compartmentalized Liquids".
The contributions concerned
different fields of science
from mathematics, physics,
and chemistry to food
research and pharmacy. Thus

it was appropriate to organize
the meeting at the Zentrum für
interdisziplinäre Forschung
at Bielefeld. Envisaging
compartmentalized liquids on
a scale descending size, we
may order the systems
described in this volume from
colloidal solutions, gels,
hydrocolloids, membranes,
vesicles, microemulsions,
micellar solutions,
macrocyclic complexes to
"cages" involved in
bimolecular encounter. In
recent years many
experimental and theoretical
studies have been performed
on those systems, and they
are also of growing interest
for technical applications.
Two important reasons for the
investigation of
compartmentalized liquids as
reaction media are: i) they
are suited for performing
reactions between water-
soluble and oil-soluble

reactants, ii) they provide
large internal interfaces,
where reactions may be
catalyzed. Due to the large
interfaces, the diffusion of
molecules is restricted, and
for the theoretical treatment
of reaction rates in these
systems the concept of fractal
geometry seems to be
appropriate. Therefore
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