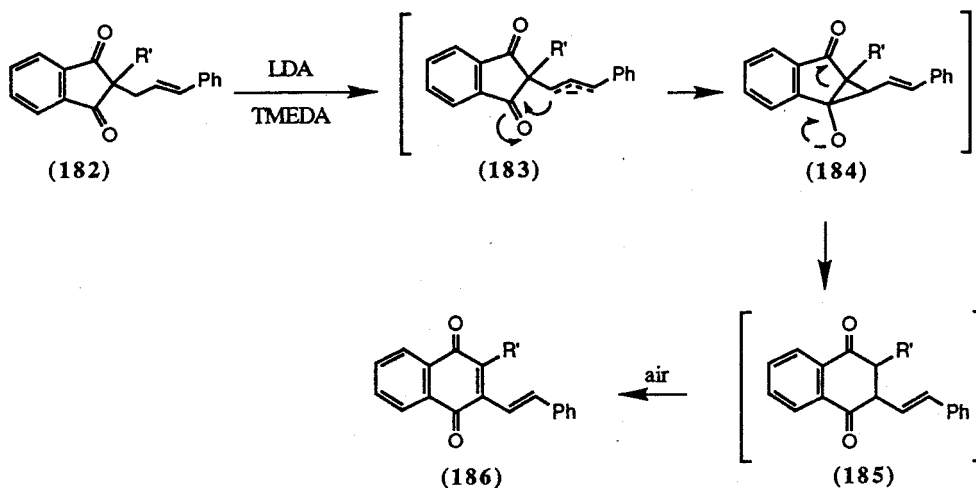


| | |
|-------------------------------------|---|
| Thesis Title | 1,2-Carbonyl Migration along the Allylic framework and Asymmetric Synthesis of Spiro[4.5]dec-2-ene-1,6-dione |
| Name | Yongyuth Pinyopronpanich |
| Degree | Doctor of Philosophy (Organic Chemistry) |
| Thesis Supervisory Committee | Yodhathai Thebtaranonth, Ph.D. Somsak Ruchirawat, Ph.D. Amornsri Chermprapai, Ph.D. Chachanat Thebtaranonth, Ph.D. |
| Date of Graduation | 19 April B.E. 2534 (1991) |

ABSTRACT

The first part of this thesis deals with base-induced intramolecular rearrangement of allylic indandione (**182**) by 1,2-carbonyl migration to yield alkenylnaphthoquinones, e.g. (**186**).



The second part of the thesis describes an asymmetric synthesis of (+)-(R)-(**306**) and (-)(S)-(**306**) compounds, where both optically active menthols [(+)-(1S,2R,5S) and (-)-(1R,2S,5R)-menthols] are employed as chiral templates. The study of the asymmetric allylation of compound **326** and **329** under various reaction conditions has also been looked at and described.

