

under and anyone unfamiliar with the Kangaroo fern family.—ROBBIN C. MORAN, Missouri Botanical Garden, Box 299, St. Louis, MO 63166-0299.

"*Illustrations of Pteridophytes of Japan, Volume 5*" edited by S. Kurata and T. Nakaike with the cooperation of the Nippon Fernist Club. 1987. x + 818 pp. + folding map. University of Tokyo Press. Yen 14,000. ISBN 4-13-061065-1.

The fifth volume, with another hundred taxa of Japanese ferns, is as splendid as the preceding four, all of which have received reviews in this *Journal* [for review of preceding volume, see *Amer. Fern J.* 77:65. 1987]. Volume five is principally devoted to Hymenophyllaceae, Blechnaceae, Vittariaceae, *Adiantum*, *Arachniodes*, *Cyrtomium*, and *Lindsaea*.

The three beautiful color plates on two pages of frontispiece, a feature of each of the volumes, here depict species having reddish fronds, at least when young. The red pigments are presumably anthocyanins, once thought to be absent in ferns.

Names of several included species are subject to nomenclatural change, especially in Hymenophyllaceae. *Arachniodes hasseltii* has been placed in *Dryopteris* subg. *Nephrocystis* (H. Ito) Fraser-Jenkins [*Bull. Brit. Mus. (Nat. Hist.), Bot.* 14:197. 1986], and *Ctenitis maximowicziana* in the genus *Dryopsis* Holttum & Edwards [*Kew Bull.* 41:179. 1986]. All plants named *Adiantum diaphanum* Blume from Japan, S. China, and the Philippines should be called *A. setulosum* J. Smith, since the Javan species which includes Blume's type is very distinct, characterized by glabrous indusial flaps.—M. G. PRICE, Herbarium, North University Building, University of Michigan, Ann Arbor, MI 48109.

"A key to the genera of New Zealand ferns and allied plants," by P. J. Brownsey and T. N. H. Galloway. 1987. 31 pp. National Museum of New Zealand Miscellaneous Series no. 15. Available from the Librarian, National Museum, Private Bag, Wellington, New Zealand. NZ \$5.95 (incl. postage). ISSN 0110-1447.

This publication provides an illustrated key for identifying the 66 genera of ferns and fern allies occurring in the New Zealand botanical region. Some 92 species (out of a total of 211) are illustrated by line drawings, with every genus represented by at least one illustration. Technical terms have been kept to a minimum, and all are defined in the illustrated glossary.



Price, M G, Kurata, S , and Nakaike, T . 1987. "Illustrations of Pteridophytes of Japan, Volume 5." *American fern journal* 77, 108–108.

<https://doi.org/10.2307/1547504>.

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