# Contents

Preface vii

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>KHIN ZAW, WIN SWE, BARBER, A. J., CROW, M. J. &amp; YIN YIN NWE. Introduction to the geology of Myanmar</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>RANGIN, C. Active and recent tectonics of the Burma Platelet in Myanmar</td>
<td>53</td>
</tr>
<tr>
<td>4</td>
<td>KYI KHIN, KHIN ZAW &amp; LIN THU AUNG. Geological and tectonic evolution of the Indo-Myanmar Ranges (IMR) in the Myanmar region</td>
<td>65</td>
</tr>
<tr>
<td>5</td>
<td>KYI KHIN, SAKAI, T. &amp; KHIN ZAW. Arakan Coastal Ranges in western Myanmar, geology and provenance of Neogene siliciclastic sequences: implications for the tectonic evolution of the Himalaya–Bengal System</td>
<td>81</td>
</tr>
<tr>
<td>6</td>
<td>HLA HTAY, KHIN ZAW &amp; THAN THAN OO. The mafic–ultramafic (ophiolitic) rocks of Myanmar</td>
<td>117</td>
</tr>
<tr>
<td>7</td>
<td>NAING MAW THAN, KYI KHIN &amp; MYINT THEIN. Cretaceous geology of Myanmar and Cenozoic geology in the Central Myanmar Basin</td>
<td>143</td>
</tr>
<tr>
<td>8</td>
<td>MYINT THEIN &amp; MAUNG MAUNG. The Eastern (Back-arc) Basin of Central Myanmar: Basement rocks, lithostratigraphic units, palaeocurrents, provenance and developmental history</td>
<td>169</td>
</tr>
<tr>
<td>9</td>
<td>ZIN-MAUNG-MAUNG-THEIN, THAUNG-HTIKE, AUNG NAING SOE, CHIT SEIN, MAUNG-MAUNG &amp; MASANARU TAKAI. Review of the investigation of primate fossils in Myanmar</td>
<td>185</td>
</tr>
<tr>
<td>10</td>
<td>WIN MAW. Historical review of the contribution of geophysics to petroleum discoveries in the Tertiary basins of Myanmar</td>
<td>207</td>
</tr>
<tr>
<td>11</td>
<td>THAN HTUT. Myanmar petroleum systems, including the offshore area</td>
<td>219</td>
</tr>
<tr>
<td>13</td>
<td>THET TIN NYUNT, HANS-JOACHIM MASSONNE &amp; TAY THYE SUN. Jadeiteite and other high-pressure metamorphic rocks from the Jade Mines Belt, Tawmaw area, Kachin State, northern Myanmar</td>
<td>295</td>
</tr>
<tr>
<td>14</td>
<td>AYE KO AUNG &amp; L. ROBIN M. COCKS. Cambrian–Devonian stratigraphy of the Shan Plateau, Myanmar (Burma)</td>
<td>317</td>
</tr>
<tr>
<td>15</td>
<td>ZAW WIN, KYI KYI SHWE &amp; OHNMAO SOE YIN. Sedimentary facies and biotic associations in the Permian–Triassic limestones on the Shan Plateau, Myanmar</td>
<td>343</td>
</tr>
<tr>
<td>16</td>
<td>RIDD, M. F. Karen–Tenasserim Unit</td>
<td>365</td>
</tr>
<tr>
<td>17</td>
<td>AUNG ZAW MYINT, KHIN ZAW, YE MYINT SWE, KOTARO YONEZU, YUE CAL TAKAYUKI MANAKA &amp; KORCHIRO WATANABE. Geochemistry and geochronology of granites hosting the Mawchi Sn–W deposit, Myanmar: implications for tectonic setting and emplacement</td>
<td>385</td>
</tr>
<tr>
<td>18</td>
<td>MI PAIK. Geochemistry and geochronology of granitoid rocks in the Mawpalaw Taung area, Thanbyuzayat Township, southern Myanmar: their petrogenesis and tectonic setting</td>
<td>401</td>
</tr>
<tr>
<td>19</td>
<td>SOE THURA TUN &amp; WATKINSON, I. M. The Sagaing Fault, Myanmar</td>
<td>413</td>
</tr>
<tr>
<td>20</td>
<td>MYINT THEIN. Current tectonic activity along the Sagaing Fault, Myanmar indicated by alluvial fans</td>
<td>443</td>
</tr>
<tr>
<td>21</td>
<td>SOE MIN, WATKINSON, I. M., SOE THURA TUN, WIN NAING &amp; Tin LWIN SWE. The Kyaukkyan Fault, Myanmar</td>
<td>453</td>
</tr>
<tr>
<td>22</td>
<td>MYINT SOE, ISAO TAKASHIMA, KHIN ZAW &amp; YE MYINT SWE. Remote sensing and GIS studies of alteration and predictive mineral exploration in the Central Volcanic Arc, Myanmar</td>
<td>473</td>
</tr>
<tr>
<td>23</td>
<td>KYAW THU &amp; KHIN ZAW. Gem deposits of Myanmar</td>
<td>497</td>
</tr>
<tr>
<td>24</td>
<td>KHIN ZAW. Overview of mineralization styles and tectonic–metallogenic setting in Myanmar</td>
<td>531</td>
</tr>
<tr>
<td>25</td>
<td>YE MYINT SWE, CHO CHO AYE &amp; KHIN ZAW. Gold deposits of Myanmar</td>
<td>557</td>
</tr>
<tr>
<td>Chapter</td>
<td>Authors</td>
<td>Title</td>
</tr>
<tr>
<td>---------</td>
<td>------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>26</td>
<td>KHIN ZAW, YE MYINT SWE, TIN AUNG MYINT &amp; KNIGHT, J.</td>
<td>Copper deposits of Myanmar</td>
</tr>
<tr>
<td>27</td>
<td>THAN HTUN, AUNG KYIN &amp; KHIN ZAW</td>
<td>Lead–zinc–silver deposits of Myanmar</td>
</tr>
<tr>
<td>28</td>
<td>THAN HTUN, THAN HTAY &amp; KHIN ZAW</td>
<td>Tin–tungsten deposits of Myanmar</td>
</tr>
<tr>
<td>29</td>
<td>TOE AUNG KYAW</td>
<td>Antimony deposits of Myanmar</td>
</tr>
<tr>
<td>31</td>
<td>BARBER, A. J., KHIN ZAW &amp; CROW, M. J.</td>
<td>The pre-Cenozoic tectonic evolution of Myanmar</td>
</tr>
<tr>
<td>Appendix</td>
<td>CROW, M. J. &amp; KHIN ZAW</td>
<td>Geochronology in Myanmar (1964–2017)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Index</td>
</tr>
</tbody>
</table>

**Foldout map:** Geological map of Myanmar